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THE STATE OF HAWAII
DATA BOOK
1979
A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

NOVEMBER 1979

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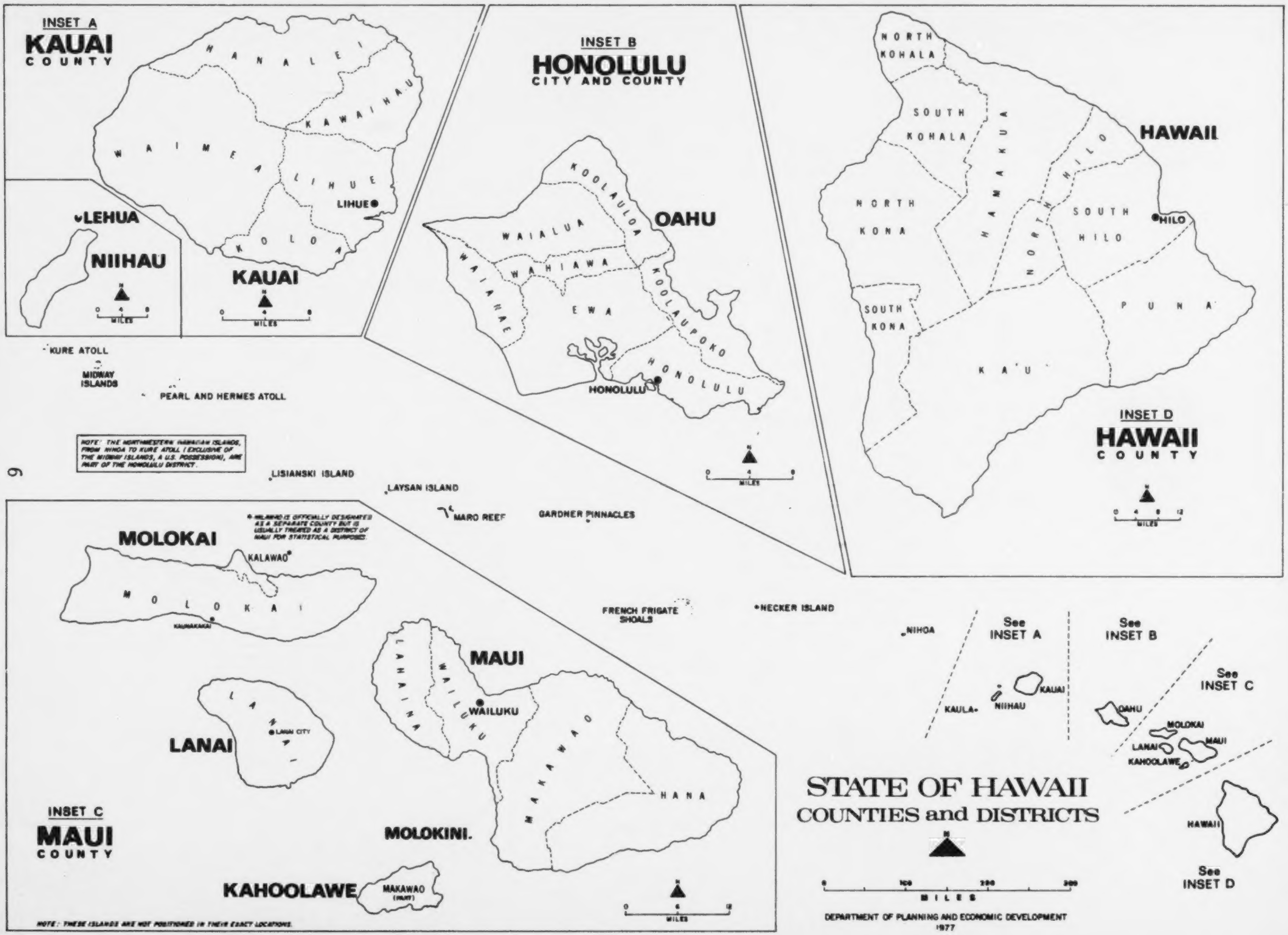
FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1979 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1979 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.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COUNTY
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KAWAIHAU
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MILES
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
INSET B
HONOLULU
CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
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LANAI CITY
MOLOKINI.
KAHOOLAWE
MAKAWAO (PART)
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COUNTY
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KAUAI
NIIHAU
KAULA
OAHU
MOLOKAI
MAUI
LANAI
KAHOOLAWE
HAWAII
N
0 100 200 300
MILES

STATE OF HAWAII
COUNTIES and DISTRICTS

NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT.

* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES.

NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS.

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

INTRODUCTION

By Hideto Kono, Director
Department of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is intended to serve as the standard official summary of statistics on the social, economic, and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as either a convenient volume of statistical reference or a guide to other statistical publications and sources.

The present volume, containing statistics available in the summer of 1979, is the thirteenth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. All are now out of print, but copies can be seen in many high school, university, and public libraries in Hawaii.

The Data Book closely follows the organization and format of the U.S. Abstract, in order to faciliate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Many Federal, State, County and private organizations cooperated in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, *Statistical Abstract of the United States*, and described in *Bureau of the Census Manual of Tabular Presentation*, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items or figures within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

—	Represents zero or rounds to less than half the unit of measurement shown.
D	Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.
NA	Data not enumerated, tabulated, or otherwise available separately.
...	Same as NA; used in tables in which a large number of cells lack data.

In many tables, details will not add to the totals shown because of rounding.

Median: The value which divides the distribution into two equal parts--one-half the cases falling below this value and one-half exceeding it.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliliters	milliliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous Conversions

1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and characteristics of the population of Hawaii, and on the number and characteristics of migrants to and from the State.

Preliminary estimates for mid-1978 indicate a resident population of 896,600. This total includes approximately 56,500 members of the armed forces and 61,100 of their dependents. It excludes an average of 96,000 visitors who were present in 1978, while including an average of 7,900 residents who were temporarily out of the State. The total population has risen from 58,000 in 1878 to 154,000 in 1900 and 423,000 in 1940 (although a wartime peak of 859,000 was reached in 1944). Approximately 79.1 percent of the 1978 de facto total lived on Oahu, giving that island a density of 1,315 persons per square mile. The population is young -- the median age in 1977 was 28.3 years -- and racially diversified. The major unmixed groups in 1977 were Caucasians (27.5 percent of the non-barracks, non-institutional population) and Japanese (25.9 percent). In addition, 25.7 percent were of mixed race, primarily part Hawaiian. Migration has been a major factor in the growth of the population: between 1970 and 1978, there was a net in-migration (excluding military personnel and dependents) of 55,700, accounting for almost half of the total civilian population growth during that time. Intended residents arriving aboard westbound civilian carriers in fiscal 1978 numbered 47,300, of whom 27,600 were military personnel and dependents and 19,700 were other civilians. Immigrant arrivals in fiscal 1977 totaled 7,800, mostly from the Philippines and Korea.

The comparison of demographic data from different sources is often complicated by the use of differing definitions and coverage. Some series, for example, refer to resident population, while others pertain to de facto population; the latter includes visitors present but excludes residents temporarily absent. Total population includes armed forces stationed in an area, as well as their dependents in the area; civlian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary allocation of persons of mixed race in the 1970 U. S. Census. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by State agencies.

The principal sources for these data are the decennial censuses (most recently conducted in 1970), the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the OEO 1975 Census Update Survey, and the ongoing series on migration maintained by the Hawaii Visitors Bureau and U. S. Immigration and Naturalization Service. The Department of Planning and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Another annual report distributed by DPED contains population estimates by census tracts. Earlier information on population and migration is given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in sections 1 and 3 of Statistical Abstract of the United States: 1978.

Table 1.-- POPULATION, URBAN AND RURAL: 1831 TO 1970

Census date	Total population 1/		Urban 2/		Rural 3/	
	Number	Percent change 4/	Places	Population	Population	Percent of total
1831-32 5/	129,814	...	1	13,344	116,470	89.7
1835-36 6/	108,568	-4.5	1	12,994	95,574	88.0
1850: Jan.	84,165	-1.8	1	14,484	69,681	82.8
1853: Dec. 26	73,138	-3.5	1	11,455	61,683	84.3
1860: Dec. 24	69,800	-0.7	1	14,310	55,490	79.5
1866: Dec. 7	62,959	-1.7	1	13,521	49,438	78.5
1872: Dec. 27	56,897	-1.7	1	14,852	42,045	73.9
1878: Dec. 27	57,985	0.3	1	14,114	43,871	75.7
1884: Dec. 27	80,578	5.5	1	20,487	60,091	74.6
1890: Dec. 28	89,990	1.8	1	22,907	67,083	74.5
1896: Sept. 27	109,020	3.3	1	29,920	79,100	72.6
1900: June 1	154,001	9.4	1	39,306	114,695	74.5
1910: April 15	191,874	2.2	2	58,928	132,946	69.3
1920: Jan. 1	255,881	3.0	2	92,251	163,630	63.9
1930: April 1	368,300	3.6	12	197,937	170,363	46.3
1940: April 1	422,770	1.4	17	264,262	158,508	37.5
1950: April 1	499,794	1.7	17	344,869	154,925	31.0
1960: April 1	632,772	2.4	19	483,961	148,811	23.5
1970: April 1 7/	769,913	2.0	34	643,222	126,691	16.5

1/ De facto basis through 1896 and resident basis thereafter.

2/ The urban population comprises all persons living in urbanized areas (first defined for Hawaii in 1960) and in places of 2,500 or more outside urbanized areas. Statistical boundaries were first established for Honolulu in 1831, Hilo in 1911 (for 1910 census tabulations), and other urban places beginning in 1930.

3/ The rural population includes all persons living outside urban places.

4/ Annual rate since the preceding census, based on the formula for continuous compounding.

5/ Total population also reported as 130,313.

6/ Total population also reported as 108,393 and 108,579.

7/ Revised.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 8.

Table 2 .-- ESTIMATED POPULATION, BY RESIDENCE AND MILITARY STATUS: 1958 TO 1978

Year 1/	Resident population 2/					Visitors present (annual average)	Residents absent (annual average)	De facto population 3/
			Civilian population					
	Total	Armed forces 4/	Total	Military dependents 5/	Not military dependents			
1958	605,400	55,000	550,300	(NA)	(NA)	8,400	2,000	611,800
1959	622,100	56,600	565,500	(NA)	(NA)	10,400	2,000	630,500
1960: Apr. 1	632,772	53,888	578,884	60,057	518,827	10,800	2,100	641,500
July 1	641,500	59,200	582,300	60,300	522,100	11,800	2,100	651,200
1961	658,700	60,800	597,900	62,000	535,800	12,000	2,400	668,200
1962	683,500	79,000	604,500	63,200	541,300	13,100	3,000	693,600
1963	682,200	59,600	622,700	61,500	561,200	15,300	3,100	694,500
1964	699,900	73,200	626,700	69,100	557,600	16,000	4,700	711,200
1965	703,800	53,400	650,400	65,800	584,600	17,300	5,700	715,400
1966	710,300	54,100	656,300	62,600	593,600	21,000	6,800	724,600
1967	722,500	56,000	666,500	61,300	605,200	27,700	7,600	742,600
1968	734,500	57,000	677,400	59,100	618,300	32,500	8,100	758,800
1969	750,200	48,500	701,800	59,700	642,100	37,400	8,800	778,800
1970: Apr. 1	769,913	55,142	714,771	61,858	652,913	37,600	10,300	797,300
July 1	775,800	53,200	722,600	57,800	664,800	37,600	10,000	803,400
1971	800,900	50,800	750,100	62,200	687,900	41,900	9,400	833,300
1972	823,300	52,000	771,300	66,200	705,100	51,300	8,600	865,900
1973	844,100	58,100	785,900	70,300	715,600	61,600	9,800	895,900
1974	855,400	57,500	797,900	68,300	729,600	66,000	7,800	913,600
1975	867,900	58,900	809,000	63,700	745,300	68,800	9,000	927,700
1976	883,500	57,800	825,700	67,000	758,800	78,500	9,400	952,700
1977	891,400	56,500	834,900	65,000	769,900	86,800	9,000	969,200
1978	896,600	56,500	840,100	61,100	779,000	96,000	7,900	984,700

Footnotes and source on next page.

NA Not available.
1/ July 1 unless otherwise specified.
2/ Includes residents temporarily absent; excludes visitors present.
3/ Excludes residents temporarily absent; includes visitors present.
4/ De facto basis, 1958-1969; stationed or homeported in Hawaii, 1970 forward.
5/ Dependents living in Hawaii, regardless of location of family head.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1978 (Statistical Report 131, April 2, 1979), table 1.

Table 3 .-- ESTIMATED POPULATION, 1970 TO 1978, AND DENSITY, 1978, BY GEOGRAPHIC AREAS

Subject and date	State total	City and County of Honolulu	Other counties						
			Total	Hawaii County	Kauai County 1/	Maui County 2/			
						Total	Lanai	Maui	Molokai
TOTAL RESIDENT POPULATION 3/									
1970: April 1	769,913	630,528	139,385	63,468	29,761	46,156	2,204	38,691	5,261
1977: July 1	891,400	717,600	173,800	79,200	34,400	60,300	2,200	51,600	6,400
1978: July 1	896,600	719,600	177,000	80,900	34,700	61,400	2,100	52,900	6,400
CIVILIAN RESIDENT POPULATION 4/									
1970: April 1	714,771	575,719	139,052	63,328	29,627	46,097	2,204	38,632	5,261
1977: July 1	834,900	661,400	173,500	79,000	34,200	60,200	2,200	51,600	6,400
1978: July 1	840,100	663,500	176,600	80,700	34,500	61,400	2,100	52,900	6,400
TOTAL DE FACTO POPULATION 5/									
1970: April 1	797,300	649,600	147,600	66,300	32,300	49,100	2,200	41,500	5,300
1977: July 1	969,200	771,100	198,000	85,700	40,100	72,200	2,200	62,900	7,100
1978: July 1	984,700	779,300	205,400	88,400	41,500	75,400	2,100	66,000	7,300
DE FACTO DENSITY									
Per square mile, 1978	153.3	1,308.3	35.2	21.9	67.1	64.3	15.3	90.7	27.9
Per square km., 1978	59.2	505.1	13.6	8.5	25.9	24.8	5.9	35.0	10.8

1/ Includes Kauai, Niihau, Lehua, and Kaula. The total resident population of Niihau was 237 on April 1, 1970, 247 on March 30, 1977, and 266 on July 31, 1978. Kaula and Lehua are uninhabited.

2/ Population data for county and Molokai include Kalawao County (Kalaupapa Settlement): 172 in 1970, 176 in 1977, and 173 in 1978. Density data include Kahoolawe (uninhabited).

3/ Includes armed forces and their dependents.

4/ Includes military dependents but excludes armed forces.

5/ Includes armed forces and their dependents and also visitors present, but excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1978 (Statistical Report 131, April 2, 1979), table 1.

Table 4.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1970 TO 1978

County and district 1/	April 1, 1970	July 1, 1977 2/	July 1, 1978 2/	Percent change, 1970-1978 3/
The State	769,913	891,400	896,600	16.4
Honolulu	630,528	717,600	719,600	14.1
Honolulu	324,871	353,600	352,100	8.4
Koolaupoko	92,219	103,600	104,000	12.8
Koolauloa	10,562	12,900	13,000	22.9
Waialua	9,171	10,100	9,900	8.3
Wahiawa	37,329	42,200	42,600	14.1
Waianae	24,077	27,100	28,100	16.6
Ewa	132,299	168,100	169,800	28.3
Hawaii	63,468	79,200	80,900	27.4
Puna	5,154	8,100	8,300	61.9
South Hilo	33,915	40,500	41,000	20.9
North Hilo	1,881	2,100	2,000	4.6
Hamakua	4,648	5,200	5,400	15.7
North Kohala	3,326	3,600	3,600	6.9
South Kohala	2,310	3,200	3,400	49.0
North Kona	4,832	7,800	8,400	72.9
South Kona	4,004	4,800	4,800	20.9
Ka'u	3,398	3,900	4,000	18.2
Maui and Kalawao	46,156	60,300	61,400	33.1
Hana	969	1,200	1,200	23.1
Makawao	9,979	13,500	14,200	42.8
Wailuku	22,219	28,800	29,300	31.9
Lahaina	5,524	8,100	8,100	47.4
Lanai	2,204	2,200	2,100	-4.2
Molokai	5,089	6,300	6,200	22.9
Kalawao	172	200	200	-3.4
Kauai	29,761	34,400	34,700	16.6
Waimea	7,569	8,300	8,200	8.5
Koloa	6,851	8,000	8,200	19.3
Lihue	6,766	7,700	7,700	14.3
Kawaihau	7,393	8,800	8,900	20.6
Hanalei	1,182	1,700	1,700	40.3

1/ For county and district boundaries, see the map on page 6 .

2/ Independently rounded and may not add exactly to the indicated totals and subtotals.

3/ Computed from unrounded data.

Source: Hawaii State Census Statistical Areas Committee, Estimated Population of Hawaii by Districts, 1978 (Report CTC-42, August 30, 1979).

Table 5 .-- LAND AREA AND POPULATION OF URBAN PLACES: 1970

[These places are among the 93 urban concentrations assigned statistical boundaries under State law. Although designated "cities," "towns" and "villages," all are unincorporated and lack separate governmental identity. Places over 2,500, the largest place on each island if none exceeds 2,500, and a few other other places of special interest are shown.]

Island and urban place 1/	Land area (acres)	Resident population	Island and urban place 1/	Land area (acres)	Resident population
Oahu:					
Aiea	1,302	12,560	Oahu, con.:		
Barbers Pt. Hsg.	149	3,187	Waimalu	115	2,982
Ewa	627	2,906	Waimanalo Beach.	328	3,045
Ewa Beach	815	7,765	Waipahu	1,815	24,150
Foster Village	335	3,755			
Halawa Hts.	808	5,809	Hawaii:		
Haleiwa	1,165	2,626	Hilo	35,929	26,353
Hickam Housing	720	7,352	Kailua	489	365
Honolulu	53,696	324,871	Papaikou	749	1,888
Iroquois Pt.	395	4,572	Waimea	652	756
Kailua 1/	4,470	33,783			
Kaneohe	4,316	29,903	Kauai:		
Laie	754	3,009	Kapaa	2,591	3,794
Maili	477	4,397	Lihue	3,959	3,124
Makaha	723	4,644			
Makakilo City	850	3,499	Maui:		
Maunawili	2,325	5,303	Kahului	2,888	8,280
Mokapu	2,718	7,860	Lahaina	870	3,718
Nanakuli	1,068	6,506	Wailuku	1,499	7,979
Pacific Palisades	658	7,846			
Pearl City	2,135	19,552	Molokai:		
Schofield Bks.	1,849	13,516	Kaunakakai	573	1,070
Wahiawa	1,472	17,598			
Waialua	829	4,047	Lanai:		
Waianae	541	3,302	Lanai City	328	2,122

1/ Includes Coconut Grove, Kalaheo Hillside, Keolu Hills, and Lanikai.

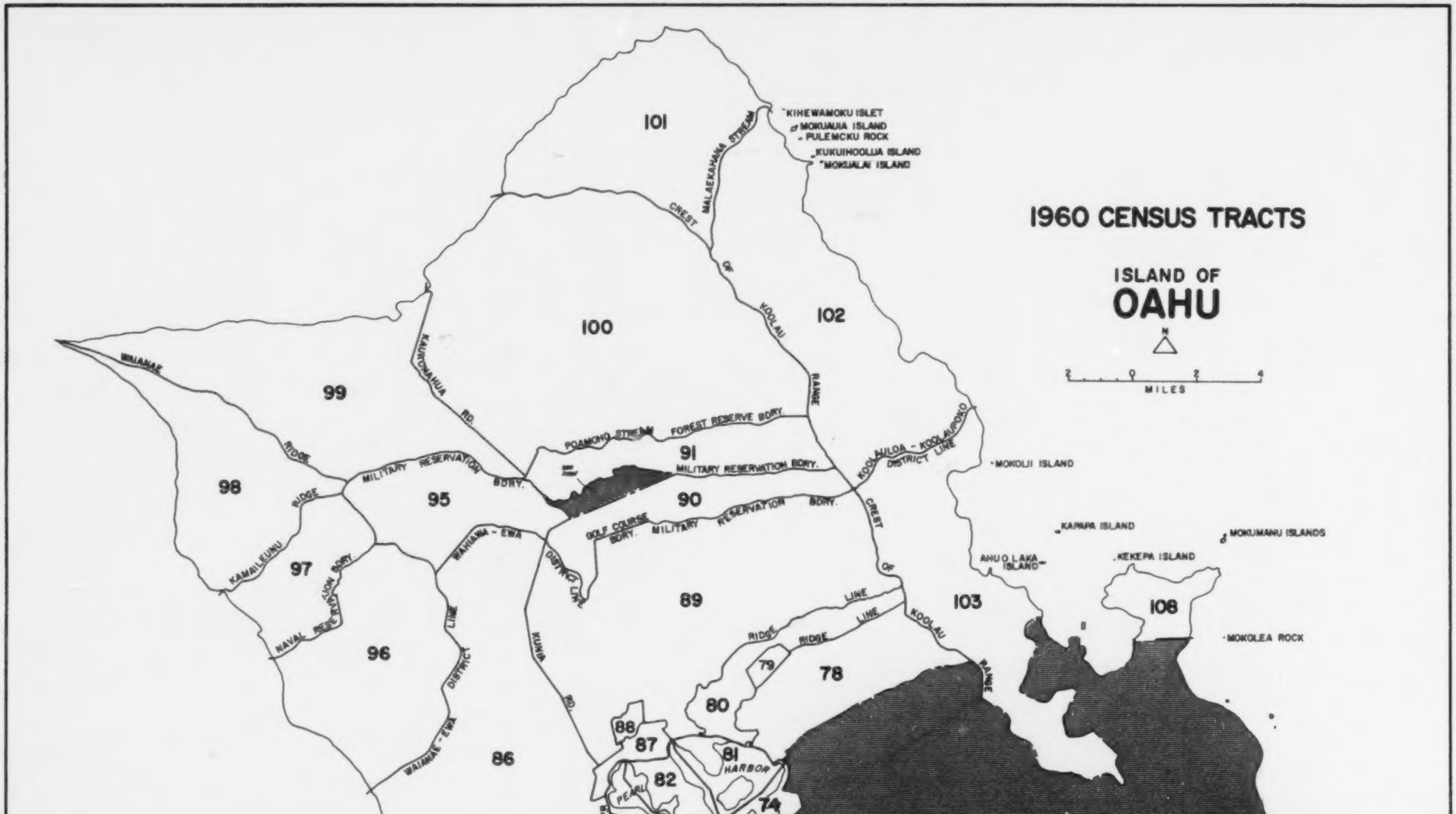
Source: Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages as Approved Through December 31, 1978 (Report SB-A14, April 11, 1979), table 1.

Table 6 .-- POPULATION OF SELECTED URBAN PLACES: 1970 AND 1974-1978

Island and urban places	1970 (census)	Latest estimate		Percent change
		Year	Population	
Oahu:				
Aiea 1/	12,566	1978	13,025	3.7
Honolulu	324,871	1978	352,516	8.5
Kailua 1/	35,186	1978	36,553	3.9
Kaneohe 1/	27,530	1978	28,678	4.2
Mokapu	7,860	1978	11,864	50.9
Pearl City 1/	27,864	1978	28,760	3.2
Wahiawa 1/	17,560	1978	17,489	-0.4
Waipahu 1/	23,462	1978	30,886	31.6
Hawaii:				
Hilo 1/	26,353	1975	31,969	21.3
Kauai:				
Kapaa	3,794	1974	3,630	-4.3
Lihue	3,124	1974	3,090	-1.4
Maui:				
Kahului 1/	9,419	1975	11,186	18.8
Wailuku 1/	10,383	1975	10,810	4.1

1/ Based on census tract boundaries which only approximate the official boundaries used in 1970 census reports. For exact 1970 population, see the preceding table.

Source: Hawaii State Census Statistical Areas Committee, Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1977 (Report CTC-38, August 25, 1978), table 8, and Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1978 (Report CTC-41, April 6, 1979), table 5.



1960 CENSUS TRACTS

ISLAND OF

OAHU

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MILES
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102
100
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90
89
86
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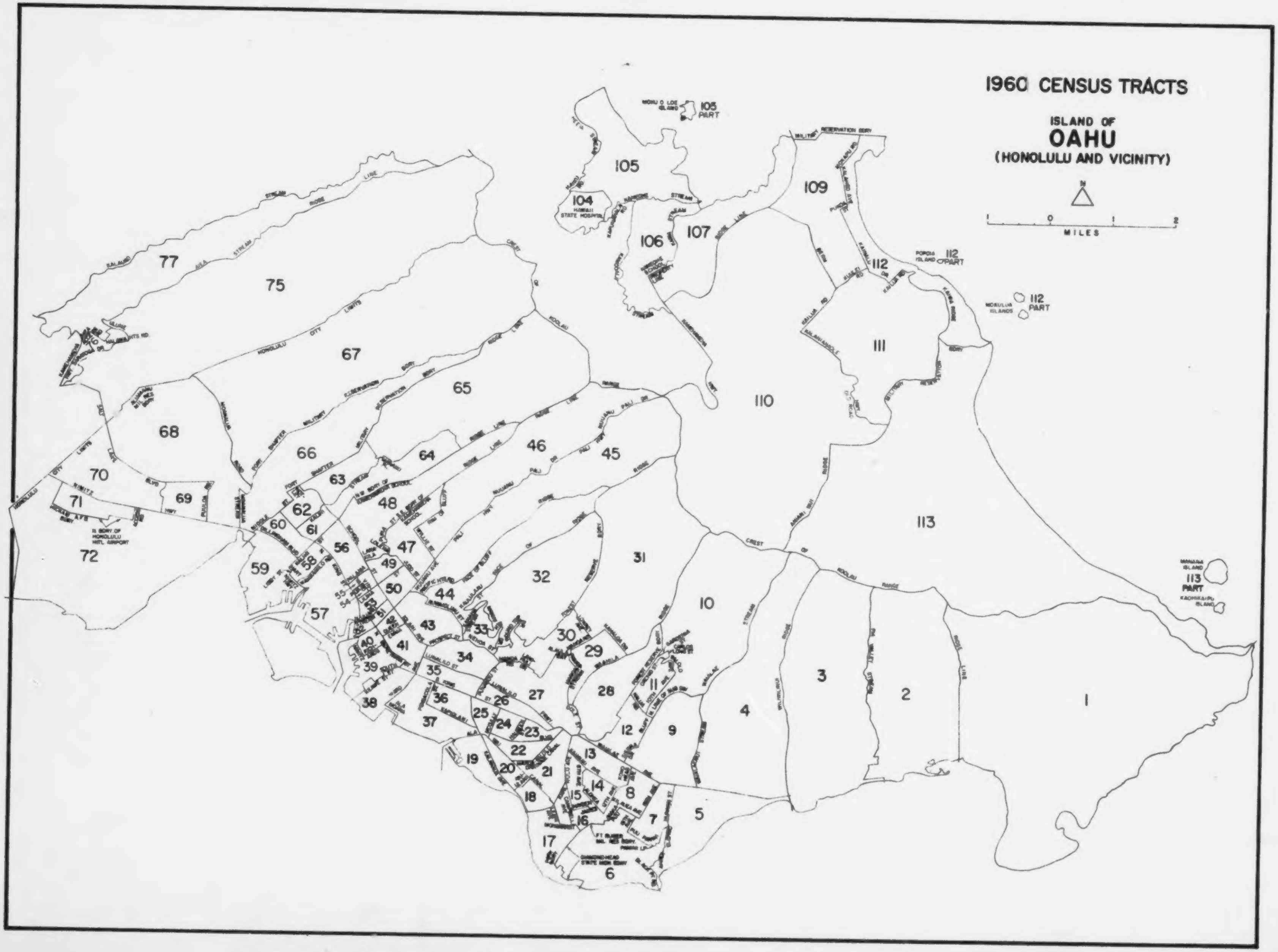
84
83
U.S. NAVAL RESERVATION
85
103
108
HARBOR
PEARL
WAIANAE
RIDGE
KAUKONAHUA RD.
CREST OF KOOLAU RANGE
MALAEKAHANA STREAM
POAMOHO STREAM
FOREST RESERVE BDRY.
MILITARY RESERVATION BDRY.
GOLF COURSE BDRY.
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
KAMAILEUNU RIDGE
NAVAL RESERVATION BDRY.
WAHIAWA - EWA DISTRICT LINE
WAIANAE - EWA DISTRICT LINE
KUNIA RD.
U.S. NAVY RR.
RIDGE LINE
KIHEWAMOKU ISLET
MOKUAUIA ISLAND
PULEMOKU ROCK
KUKUIHOOLUA ISLAND
MOKUALAI ISLAND
MOKOLII ISLAND
KAPAPA ISLAND
MOKUMANU ISLANDS
AHU O LAKA ISLAND
KEKEPA ISLAND
MOKOLEA ROCK
See Honolulu & vicinity map
WAHIAWA - SCHOFIELD BARRACKS INSET
92
93
94
MILITARY
RESERVATION
BDRY.
MILES


1960 CENSUS TRACTS
ISLAND OF
OAHU
(HONOLULU AND VICINITY)
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MILES
MOKU O LOE ISLAND
105 PART
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HAWAII STATE HOSPITAL
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107
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112
POPOIA ISLAND
112 PART
MOKULUA ISLANDS
112 PART
111
110
113
MANANA ISLAND
113 PART
KAOHIKAIPU ISLAND
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S. BDRY OF HONOLULU INT'L AIRPORT
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5
17
6
DIAMOND HEAD STATE MON BDRY
FT. RUGER MIL. RES. BDRY
CREST OF KOOLAU RANGE
HONOLULU CITY LIMITS
MILITARY RESERVATION BDRY
NUUANU PALI DR
KAPIOLANI
LUNALILO ST
NIMITZ HWY

Table 7.-- POPULATION, 1978 AND 1985, HOUSING UNITS, 1978, AND EMPLOYMENT, 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tracts (1960 definition)	Resident population				Housing units, 1978	Employment 1975 1/
	July 1, 1978	Percent change, 1970-78	Per acre, 1978	1985 (proj.)		
City and County	719,577	14.1	1.9	802,749	221,542	366,197
Honolulu 2/	352,140	8.4	6.2	399,263	126,224	257,510
1	22,566	79.5	3.0	26,532	6,388	2,258
2	6,492	26.7	2.9	5,782	1,943	589
3	6,086	- 6.2	2.1	6,356	1,743	688
4	6,056	35.5	2.6	6,885	1,737	863
5	5,368	2.2	7.6	5,532	1,862	2,925
6	1,721	-15.0	2.1	1,869	534	655
7	3,693	- 2.7	15.4	3,492	1,047	472
8	4,113	-10.6	18.4	4,350	1,273	783
9	10,262	- 3.9	14.9	9,642	3,314	1,451
10	3,324	- 8.9	1.7	3,516	912	173
11	4,268	- 6.9	22.5	3,437	1,067	302
12	7,303	- 7.4	26.1	7,163	2,198	1,239
13	4,809	- 6.6	20.8	5,210	1,634	1,826
14	2,864	- 4.2	23.5	2,732	872	231
15	4,445	2.3	32.0	4,007	1,407	421
16	4,723	- 1.3	31.3	4,472	1,531	492
17	2,800	9.4	8.5	3,533	1,558	1,588
18	5,161	27.1	50.6	10,365	2,748	4,325
19	7,321	63.5	19.4	10,611	4,309	15,986
20	7,425	61.9	60.4	11,619	4,476	10,485
21	3,890	16.2	13.0	4,688	1,506	1,498
22	6,559	72.8	43.2	7,468	2,754	449
23	5,945	41.7	66.8	5,845	2,448	1,589
24	6,421	9.2	60.0	6,561	2,479	932
25	4,077	- 3.9	38.1	5,671	1,644	1,491
26	5,503	6.6	33.6	4,953	2,231	3,587
27	7,512	-13.8	12.0	10,678	2,945	7,377
28	3,544	-17.9	5.7	3,989	1,101	214
29	1,879	18.1	7.3	1,756	496	742
30	4,767	- 4.0	11.6	4,621	1,640	1,027
31	8,098	- 4.0	3.6	8,299	2,291	762
32	1,183	- 2.9	0.8	1,236	400	231
33	968	-15.5	6.5	1,268	298	301
34	16,980	13.9	62.0	21,816	8,765	2,028
35	6,084	41.2	32.9	5,416	2,912	7,731
36	6,262	12.4	34.8	6,608	3,072	9,557
37	2,542	88.4	6.2	2,914	1,376	17,225

Continued on next page.

Table 7 .-- POPULATION, 1978 AND 1985, HOUSING UNITS, 1978, AND EMPLOYMENT 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tracts (1960 definition)	Resident population				Housing units, 1978	Employment 1975 1/
	July 1, 1978	Percent change, 1970-78	Per acre, 1978	1985 (proj.)		
Honolulu, con.:						
38	412	-50.8	1.6	1,570	235	15,432
39	129	-67.5	0.4	297	84	11,163
40	88	-12.0	1.2	696	66	29,682
41	4,930	20.3	30.2	5,183	2,443	5,631
42	2,781	139.3	47.9	4,061	1,553	1,883
43	6,335	12.6	19.4	7,256	2,433	594
44	5,640	- 8.2	6.9	6,281	1,551	394
45	4,793	0.3	2.5	5,278	1,551	797
46	3,998	- 8.7	2.3	4,151	1,212	658
47	5,177	- 5.9	15.8	5,166	1,532	1,520
48	5,877	-11.1	6.8	5,198	1,766	1,864
49	2,875	-12.7	28.5	3,584	989	939
50	3,577	-10.0	26.7	5,499	1,312	2,433
51	1,986	-	44.1	2,583	762	1,611
52	1,386	- 1.4	31.5	650	1,000	3,715
53	2,610	441.5	30.0	3,680	1,710	1,205
54	1,382	-25.8	69.1	1,093	364	86
55	1,895	- 4.1	35.8	2,475	614	262
56	4,721	-18.2	20.4	5,813	1,368	1,863
57	2,227	-19.0	2.2	2,671	997	10,834
58	3,757	18.8	29.8	2,618	1,170	2,120
59	3,874	-12.9	7.5	2,951	1,190	5,077
60	5,555	-17.2	31.0	5,058	1,657	2,293
61	2,809	-13.9	24.6	4,233	772	456
62	5,923	-13.1	38.7	7,103	1,609	669
63	5,650	-16.9	19.3	4,855	1,377	628
64	5,625	-15.8	12.8	6,080	1,443	229
65	3,569	-11.0	1.3	3,710	937	218
66	2,861	-16.4	2.0	3,316	702	6,171
67	9,349	- 4.8	1.9	9,454	2,573	1,335
68	14,952	99.4	8.7	22,589	4,999	6,508
69	5,710	54.6	22.3	5,052	1,322	216
70	3,181	-35.1	4.5	3,455	1,017	6,059
71	1,714	22.3	6.4	1,760	594	120
72	1,744	-54.9	0.6	2,952	409	13,952
114 3/	34	9.7	0.02	-	-	-
Rest of Oahu	367,437	20.2	1.1	403,486	95,318	108,687
73	7,477	-29.2	5.1	9,618	1,940	15,919
74	16,572	82.4	14.0	9,230	745	20,935
75	9,999	-12.5	1.7	11,708	2,579	3,540

Continued on next page.

Table 7.-- POPULATION, 1978 AND 1985, HOUSING UNITS, 1978, AND EMPLOYMENT 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tracts (1960 definition)	Resident population				Housing units, 1978	Employment 1975 1/
	July 1, 1978	Percent change, 1970-78	Per acre, 1978	1985 (proj.)		
Rest of Oahu, con.:						
76	3,141	7.1	19.3	1,802	811	66
77	9,884	2.6	4.5	10,012	2,719	1,361
78	13,035	128.9	1.4	26,348	3,675	4,876
79	426	-44.1	0.7	747	0	22
80	25,907	6.5	5.3	27,506	6,853	3,790
81	2,853	-19.3	2.7	3,282	703	729
82	-	-	0	-	-	-
83	9,951	109.1	3.1	9,009	2,686	416
84	7,428	- 4.8	1.8	9,559	2,017	687
85	3,746	17.5	1.0	3,538	854	1,303
86	11,168	33.9	0.3	13,341	3,108	3,002
87	12,790	0.7	13.3	11,720	3,614	3,565
88	3,924	14.4	5.7	4,835	1,050	1,276
89	31,499	123.1	1.0	36,826	9,083	5,938
90	2,990	7.4	0.4	2,877	693	1,147
91	2,837	-16.8	0.3	3,218	734	1,316
92	6,328	- 4.7	8.4	7,952	1,829	503
93	4,737	- 2.8	15.6	4,687	1,590	2,148
94	6,424	6.2	15.5	4,946	2,056	763
95	19,289	42.1	2.4	13,453	3,576	18,026
96	13,047	- 4.5	0.8	15,744	3,307	1,759
97	9,172	52.4	1.2	9,806	2,803	1,441
98	5,855	33.0	0.4	7,972	1,702	609
99	8,037	9.4	0.3	9,356	2,437	2,130
100	1,898	4.0	0.04	2,086	588	625
101	4,653	33.1	0.2	5,632	1,503	896
102	8,327	17.9	0.3	9,550	2,334	2,098
103	15,226	39.6	0.9	19,742	4,354	1,513
104	169	-72.7	0.6	586	-	558
105	14,088	12.8	9.7	17,559	3,879	2,679
106	7,953	- 4.6	10.1	8,336	2,153	1,431
107	6,468	6.3	4.3	7,472	2,049	816
108	11,864	50.9	4.4	8,456	1,881	7,289
109	13,734	- 6.1	12.3	14,710	3,923	2,481
110	4,183	5.7	0.6	4,780	1,090	676
111	15,470	15.8	6.2	17,740	4,153	2,641
112	7,349	1.9	8.5	7,562	2,213	793
113	7,539	11.2	1.1	10,183	2,034	1,324

Footnotes and source on next page.

1/ By place of work. Data include armed forces as well as civilian workers, and are on a job rather than person basis. Workers with more than one job are accordingly counted more than once.

2/ As defined for statistical purposes under the provisions of Act 25, Session Laws of Hawaii, 1963. This area, extending from Honolulu International Airport to Makapuu Point (plus the Northwestern Hawaiian Islands), is coterminous with Honolulu District. Although Honolulu is the largest urban concentration in the City and County of Honolulu (the legal municipality, which encompasses the entire island), it lacks any separate governmental identity or powers.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (but excluding Midway), which are legally part of the City and County of Honolulu.

Source: Hawaii State Census Statistical Areas Committee, Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1978 (Report CTC-41, April 6, 1979, tables 3 and 4, and errata sheet dated May 16, 1979; Steven C.K. Young, Land Use Forecast for Oahu 1975-1985 (City and County of Honolulu, Department of General Planning, June 1978).

Table 8 .-- POPULATION ESTIMATES AND PROJECTIONS, BY COUNTIES: 1980 TO 2000

[Resident totals including armed forces and their dependents but excluding visitors present. The figures for 1980-2000 are the Series II-F projections officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes, replacing the earlier Series E-2.]

Year	State total 1/	City and County of Honolulu	Other counties			
			Total 1/	Hawaii	Kauai	Maui
1980	942,300	753,700	188,600	84,700	36,500	67,400
1985	1,020,900	803,800	217,100	95,200	40,600	81,400
1990	1,091,500	845,000	246,500	105,100	46,500	94,900
1995	1,163,800	885,800	278,000	115,000	53,100	109,900
2000	1,225,900	917,400	308,500	123,300	60,400	124,700

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections, 1975-2000 (March 1, 1978), p. 4.

Table 9.— POPULATION ESTIMATES AND PROJECTIONS, BY AGE: 1975 TO 2000

[Resident totals including armed forces and their dependents but excluding visitors present. The figures for 1980-2000 are the Series II-F projections officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes, replacing the earlier Series E-2.]

Age in years	1975 (est.)	Projected (Series II-F)				
		1980	1985	1990	1995	2000
All ages 1/	868,400	942,300	1,020,900	1,091,500	1,163,800	1,225,900
Under 5	62,800	72,600	80,800	85,800	90,100	93,800
5 to 9	72,000	71,000	76,900	83,000	88,200	92,100
10 to 14	79,000	73,200	73,600	77,600	82,900	87,300
15 to 19	82,300	79,400	76,600	77,000	80,700	84,600
20 to 24	101,700	107,300	106,900	105,300	106,700	108,600
25 to 44	247,600	286,600	321,600	341,500	353,900	358,800
45 to 64	168,400	178,500	191,000	209,400	234,200	258,800
65 and over	54,600	73,700	93,700	111,700	127,400	142,000
Median age (years)	27.3	28.9	30.2	31.4	32.3	33.0

1/ Because of independent rounding, age detail may not add exactly to indicated totals.

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections, 1975-2000 (March 1, 1978), p. 5.

Table 10.-- AGE, SEX AND MILITARY STATUS: 1977

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 17,295 persons.]

Age in years	Total	Armed forces		Military dependents		Other civilians	
		Male	Female	Male	Female	Male	Female
All ages	860,325	33,677	1,674	21,976	49,289	376,631	377,078
Under 5	62,254	-	-	7,420	6,286	24,326	24,222
5 to 9	68,171	-	-	6,898	6,670	28,124	26,479
10 to 14	75,753	-	-	3,892	4,634	34,655	32,573
15 to 19	80,828	1,261	180	2,519	4,348	37,650	34,870
20 to 24	86,715	7,424	706	476	7,386	33,967	36,755
25 to 29	86,355	9,375	564	217	7,096	33,299	35,804
30 to 34	68,457	6,862	115	14	5,643	27,503	28,319
35 to 39	52,513	4,578	64	123	3,880	20,564	23,304
40 to 44	47,632	2,814	45	150	1,621	19,717	23,285
45 to 49	49,247	710	-	60	807	22,635	25,035
50 to 54	52,107	438	-	139	184	26,923	24,423
55 to 59	40,657	47	-	-	248	19,952	20,411
60 to 64	31,602	-	-	-	203	17,106	14,294
65 to 69	23,363	-	-	67	125	13,672	9,498
70 to 74	16,421	69	-	-	159	8,302	7,891
75 and over	18,153	-	-	-	-	8,236	9,917
Age not reported	98	98	-	-	-	-	-
Median (years)	28.3	29.3	24.6	7.6	21.8	29.4	29.7

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1977 (Population Report, No. 11, January 1979), p. 6.

Table 11.-- ETHNIC STOCK BY MILITARY STATUS: 1978

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 16,235 persons.]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	862,084	100.0	29,785	60,988	771,311
Unmixed	612,425	71.0	28,457	52,279	531,690
Caucasian	226,180	26.2	23,449	40,081	162,650
Japanese	216,964	25.2	798	2,103	214,063
Chinese	35,939	4.2	53	324	35,562
Filipino	83,862	9.7	1,222	3,567	79,073
Hawaiian	8,526	1.0	42	-	8,484
Korean	9,633	1.1	-	774	8,859
Negro	9,078	1.1	2,581	3,967	2,530
Puerto Rican	5,469	0.6	-	52	5,417
Samoan	8,034	0.9	95	295	7,644
Other unmixed or unknown	8,740	1.0	217	1,116	7,408
Mixed	249,660	29.0	1,329	8,708	239,623
Part Hawaiian	161,475	18.7	326	1,981	159,168
Non Hawaiian	88,185	10.2	1,003	6,727	80,455

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of father.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 12.— PLACE OF BIRTH BY MILITARY STATUS: 1977

[Excludes persons in institutions, military barracks, Kalawao or Niihau. Based on a sample survey of 17,295 persons.]

Place of birth	All groups	Armed forces	Military dependents	Other civilians
Total	860,325	35,351	71,265	753,709
Native born	739,023	32,495	60,561	645,966
Hawaii	531,916	2,751	12,347	516,818
Mainland U.S.	201,415	29,294	47,639	124,482
American Samoa	2,845	196	143	2,506
Other terr. or poss.	2,847	254	432	2,160
Foreign born	114,410	2,531	10,214	101,666
China	8,043	-	214	7,830
Indo-China	3,378	-	883	2,495
Japan	26,246	203	1,816	24,227
Korea	6,402	105	365	5,932
Philippines	51,204	1,680	3,214	46,310
Other foreign	19,137	543	3,722	14,872
Not reported	6,892	325	492	6,076

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1977 (Population Report, No. 11, January 1979), p. 7.

Table 13.-- UNDERSTANDING OF ENGLISH: SPRING 1976

[Excludes persons under 18 years of age, inmates of institutions, and residents of military barracks.]

Understanding of English	Number	Percent
All adults	596,039	100.0
Understand easily	556,225	93.3
Do not understand easily	33,882	5.7
Do not understand	5,902	1.0

Source: Hawaii State Department of Health, Comprehension of English in Hawaii (R & S Report, No. 20, February 1978), p. 5.

Table 14.— LENGTH OF RESIDENCE IN HAWAII BY MILITARY STATUS: 1977

[Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 17,295 persons.]

Length of residence in Hawaii	All groups	Armed forces	Military dependents	Other civilians
All periods	860,325	35,351	71,265	753,709
Less than 1 year	52,836	7,475	17,963	27,398
1 to 4 years	156,910	21,302	41,804	93,804
5 to 9 years	113,212	2,710	6,060	104,442
10 to 19 years	152,680	1,262	2,284	149,135
20 years or more	376,264	2,379	2,890	370,995
Not reported	8,425	224	264	7,937
Median (years)	16.8	2.9	2.7	19.9

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1977 (Population Report, No. 11, January 1979), p. 8.

Table 15.-- CITIZENSHIP: SPRING 1976

[Excludes persons in institutions or military barracks or on Niihau. Based on a sample survey of 38,818 persons.]

Island	All categories	U.S. citizens		U.S. nationals	Aliens	Status not reported
		Native born	Naturalized			
Six islands	851,824	746,208	39,837	2,748	62,479	552
Percent	100.0	87.6	4.7	0.3	7.3	0.1
Hawaii	75,732	68,428	3,467	82	3,648	107
Maui	49,260	42,872	2,345	-	4,044	-
Lanai	2,000	1,379	230	-	391	-
Molokai	5,330	4,517	340	-	473	-
Oahu	685,933	599,618	31,897	2,666	51,307	445
Kauai	33,569	29,394	1,558	-	2,617	-

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1976 (Population Report, No. 9, October 1977, tables 11, 12, and 13.

Table 16.— ALIENS WHO REPORTED UNDER THE ALIEN ADDRESS PROGRAM, BY STATUS AND NATIONALITY: 1968, 1977, AND 1978

Status and nationality	1968	1977	1978
Total aliens	47,882	68,567	69,958
Status:			
Permanent residents	43,767	62,151	61,633
Other than permanent	4,115	6,416	8,325
Nationality: 1/			
Canada	1,487	1,687	1,890
China and Taiwan	1,640	2,847	2,963
Germany	717	667	693
Japan	16,388	13,622	13,525
Korea	944	5,767	6,201
Laos	23	539	423
Philippines	22,159	31,598	32,160
Samoa, Western	233	389	580
Thailand	109	532	617
Tonga	130	428	611
United Kingdom	1,402	2,680	2,901
Vietnam	102	1,837	1,653
Other nationalities	2,547	3,884	4,270
Stateless	1	205	64
Unknown	-	1,885	1,407
Aliens as percent of resident population	6.5	7.7	7.8

1/ Shown separately for nationalities over 400 in 1978.

Source: U.S. Department of Justice, Immigration and Naturalization Service, release.

Table 17.-- HOUSEHOLD AND FAMILY CHARACTERISTICS: 1976

Subject	Number
Persons	
Population in households	842,000
In families	776,000
Head	201,000
65 years and over	21,000
Related children under 18 years	275,000
Related children 5 to 17 years	204,000
Other family members	299,000
Unrelated individuals	66,000
65 years and over	12,000
In families with female head, no husband present	77,000
Head	22,000
Related children under 18 years	36,000
Related children 5 to 17 years	27,000
Other family members	19,000
Female unrelated individuals	29,000
Families	
Total families	201,000
Size:	
2 persons	59,000
3 persons	43,000
4 persons	45,000
5 persons	27,000
6 persons	16,000
7 persons or more	10,000
Mean size of family	3.86
Number of related children under 18 years:	
No related children under 18 years	78,000
With related children under 18 years	123,000
1 child	47,000
2 children	42,000
3 children or more	34,000
Mean number of children	2.26

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), p. 179.

Table 18.-- HOUSEHOLDS: 1970, 1977 AND 1978

Date	Total households	Husband-wife households
1970: April 1 (census)	203,088	147,818
1977: July 1 (revised)	265,000	174,000
1978: July 1 (provisional)	272,000	173,000

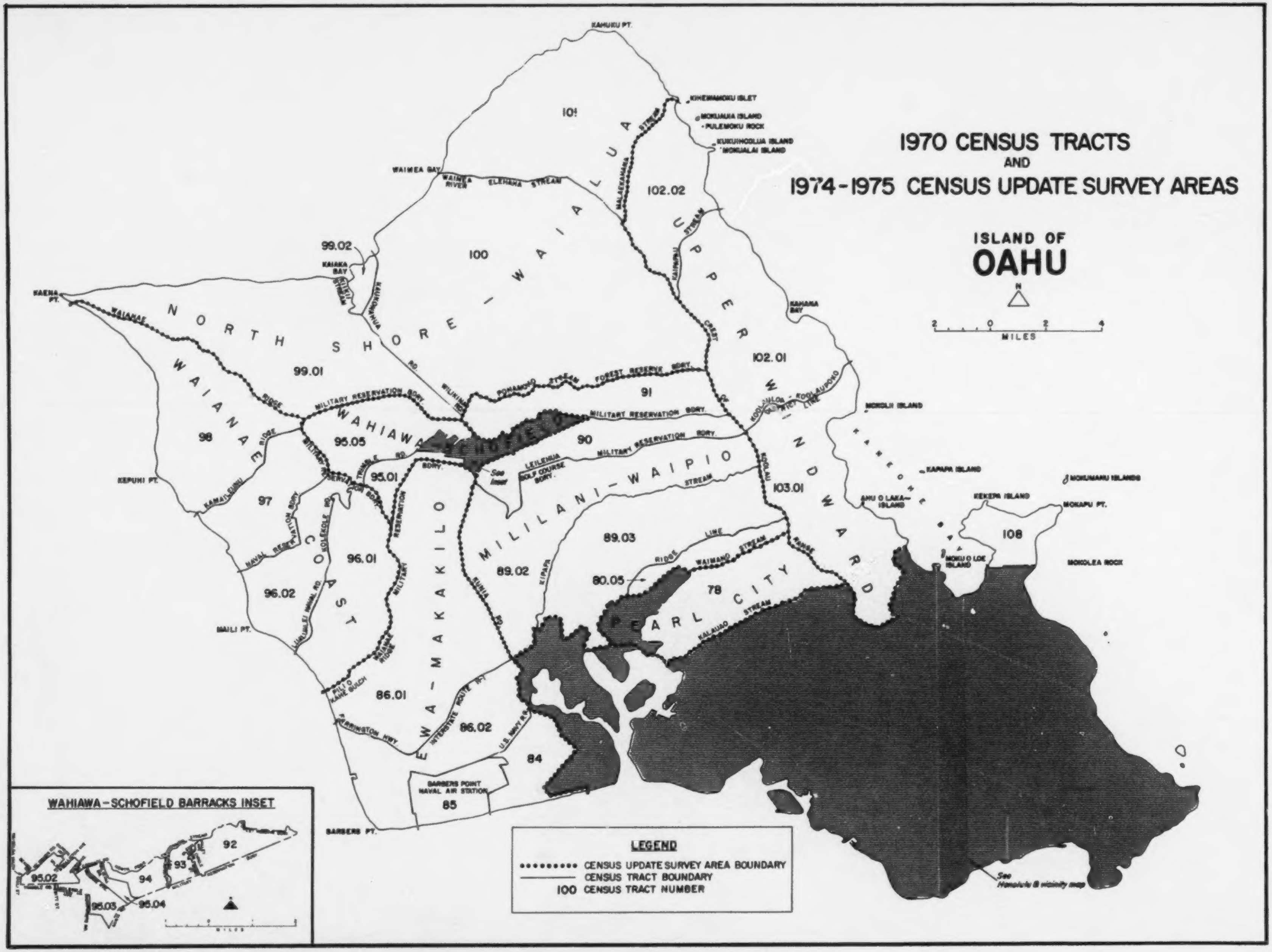
Source: U.S. Bureau of the Census, "Estimates of the Number of Households for States: 1977 and 1978," Current Population Reports, Population Estimates and Projections, Series P-25, No. 807, July 1979.

Table 19.-- MARITAL STATUS, BY SEX: 1977

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 17,295 persons.]

Marital status	Male	Female
Persons 14 years old and over	335,555	334,938
Single	109,737	86,152
Married, except separated	208,357	205,957
Separated	1,436	4,574
Widowed	5,129	20,294
Divorced	10,153	17,587
Not reported	742	374

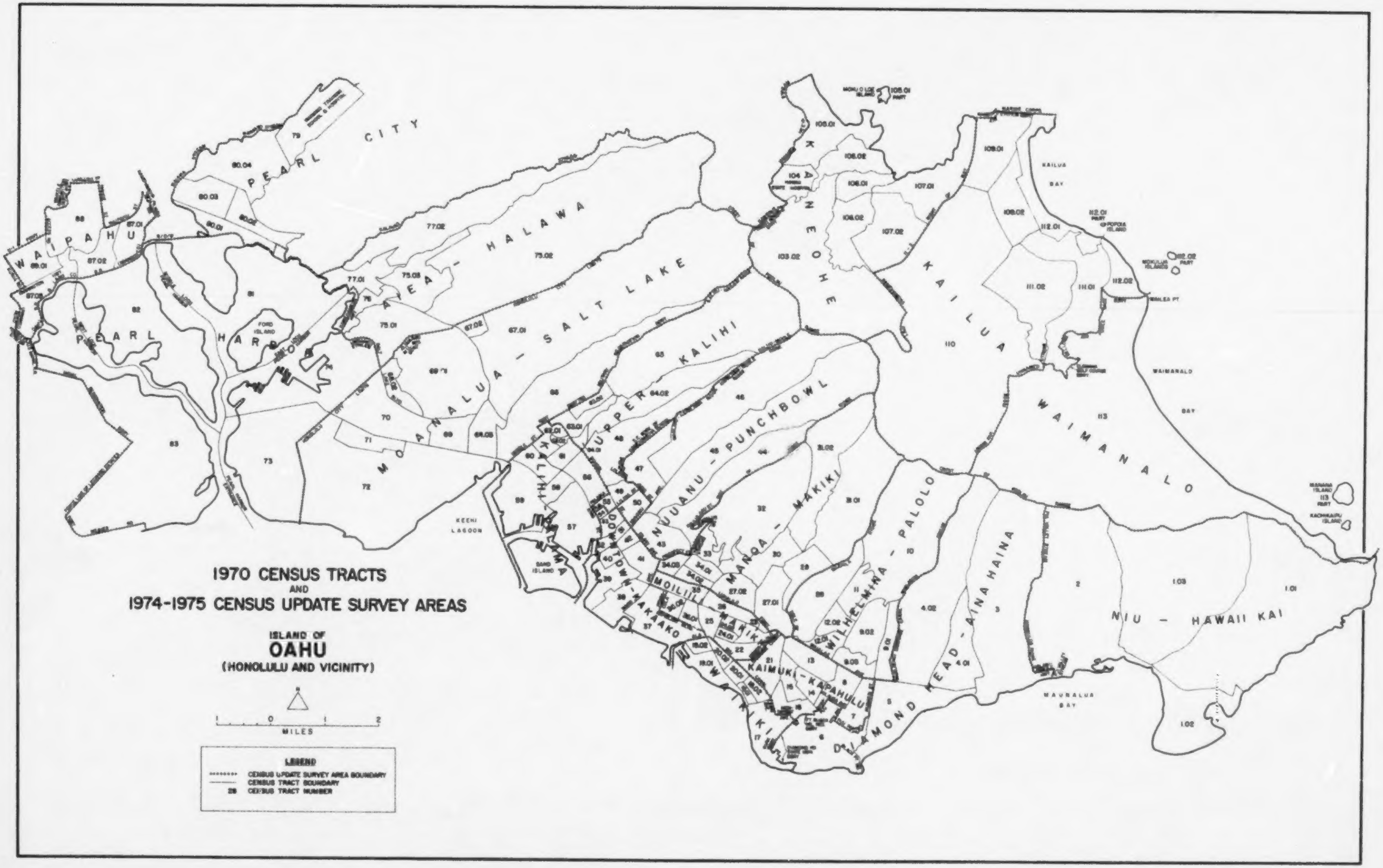
Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1977 (Population Report, No. 11, January 1979), p. 10.



1970 CENSUS TRACTS AND 1974-1975 CENSUS UPDATE SURVEY AREAS

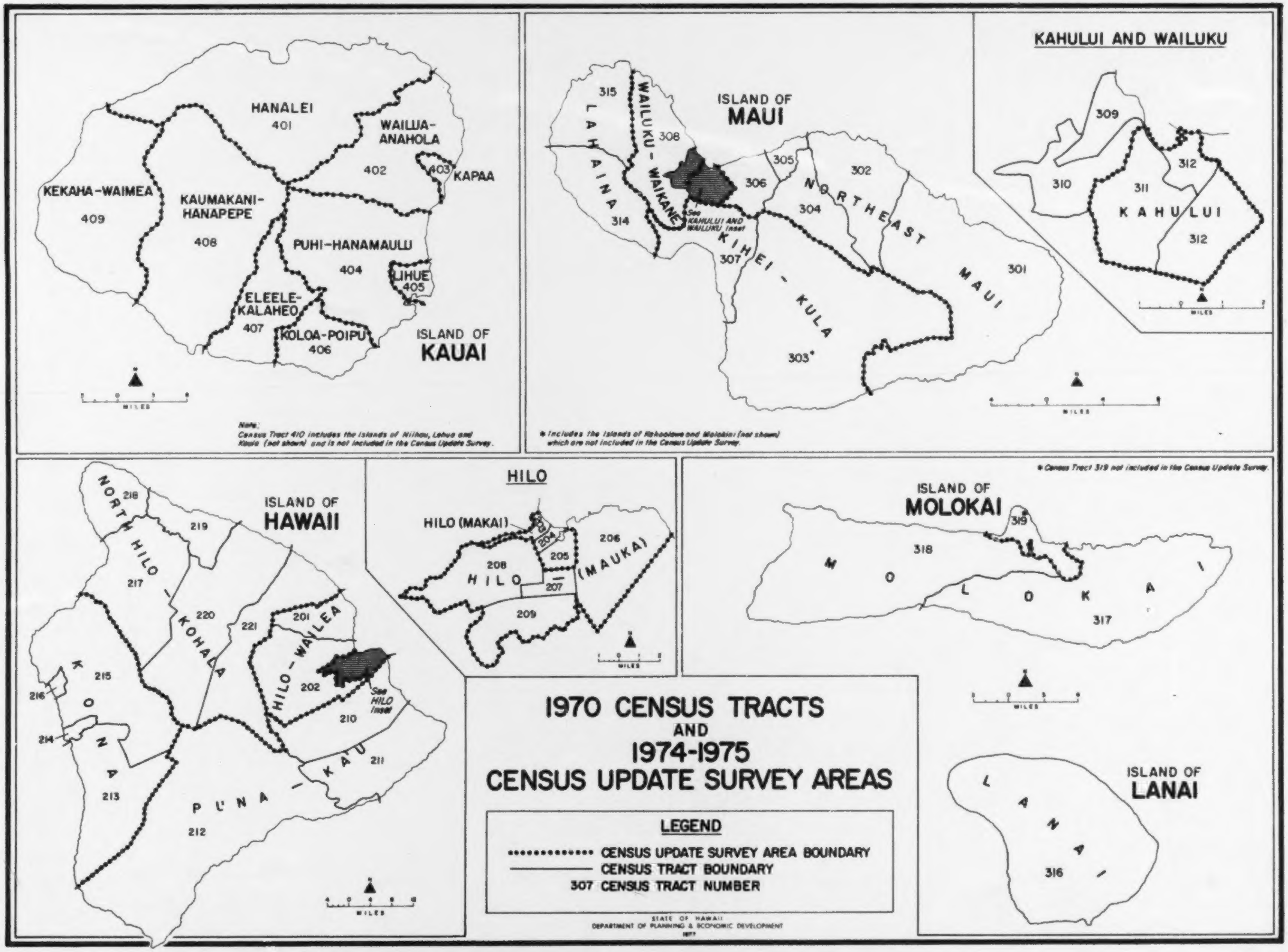
ISLAND OF OAHU

N
2 0 2 4
MILES
KAHUKU PT.
KIHEWAMOKU ISLET
MOKUAUIA ISLAND
PULEMOKU ROCK
KUKUIHOOLUA ISLAND
MOKUALAI ISLAND
WAIMEA BAY
WAIMEA RIVER
ELEHAHA STREAM
MALAEKAHANA STREAM
KAIPAPAU STREAM
KAIAKA BAY
KAENA PT.
KAHANA BAY
MOKOLII ISLAND
KAPAPA ISLAND
MOKUMANU ISLANDS
KEKEPA ISLAND
MOKAPU PT.
AHU O LAKA ISLAND
MOKU O LOE ISLAND
MOKOLEA ROCK
KEPUHI PT.
MAILI PT.
BARBERS PT.
BARBERS POINT NAVAL AIR STATION
NORTH SHORE - WAIALUA
UPPER WINDWARD
WAIANAE COAST
WAHIAWA
SCHOFIELD
MILILANI - WAIPIO
EWA - MAKAKILO
PEARL CITY
KANEOHE BAY
WINDWARD
101
102.02
102.01
100
99.02
99.01
98
97
96.01
96.02
95.05
95.01
91
90
89.03
89.02
80.05
78
86.01
86.02
84
85
103.01
108
WAIANAE RIDGE
MILITARY RESERVATION BDRY.
FOREST RESERVE BDRY.
POAMOHO STREAM
KAUKONAHUA RD.
WILIKINA
KAMAILEUNU RIDGE
NAVAL RESERVATION BDRY.
KOLEKOLE
LUALUALEI NAVAL RD.
WAIANAE RIDGE
PILI O KAHE GULCH
FARRINGTON HWY
INTERSTATE ROUTE H-1
U.S. NAVY R.R.
KUNIA RD.
LEILEHUA GOLF COURSE BDRY.
TRIMBLE RD.
KIPAPA
WAIAWA STREAM
KALAUAO STREAM
RIDGE LINE
KOOLAU
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
CREST
See Inset
See Honolulu & vicinity map
WAHIAWA - SCHOFIELD BARRACKS INSET
92
93
94
95.02
95.03
95.04
MILES
LEGEND
CENSUS UPDATE SURVEY AREA BOUNDARY
CENSUS TRACT BOUNDARY
100 CENSUS TRACT NUMBER


WAIPAHU
PEARL CITY
PEARL HARBOR
FORD ISLAND
AIEA - HALAWA
MOANALUA - SALT LAKE
UPPER KALIHI
KALIHI
KALIHI - PALAMA
KANEOHE
KAILUA
KAILUA BAY
WAIMANALO
WAIMANALO BAY
NUUANU - PUNCHBOWL
MANOA - MAKIKI
DOWNTOWN
KAKAAKO
MOILIILI
WAIKIKI
KAIMUKI - KAPAHULU
WILHELMINA - PALOLO
DIAMOND HEAD - AINA HAINA
NIU - HAWAII KAI
MAUNALUA BAY
KEEHI LAGOON
SAND ISLAND
MOKOLII ISLAND
MOKULUA ISLANDS
MANANA ISLAND
KAOHIKAIPU ISLAND
N
1 0 1 2
MILES
LEGEND
CENSUS UPDATE SURVEY AREA BOUNDARY
CENSUS TRACT BOUNDARY
29 CENSUS TRACT NUMBER

1970 CENSUS TRACTS
AND
1974-1975 CENSUS UPDATE SURVEY AREAS

ISLAND OF
OAHU
(HONOLULU AND VICINITY)


HANALEI
401
WAILUA-ANAHOLA
402
403
KAPAA
KEKAHA-WAIMEA
409
KAUMAKANI-HANAPEPE
408
PUHI-HANAMAULU
404
LIHUE
405
ELEELE-KALAHEO
407
KOLOA-POIPU
406
ISLAND OF
KAUAI
MILES
315
LAHAINA
314
WAILUKU-WAIKANE
308
ISLAND OF
MAUI
See KAHULUI AND WAILUKU inset
305
306
302
304
NORTHEAST MAUI
301
KIHEI-KULA
307
303*
MILES
KAHULUI AND WAILUKU
309
310
311
312
KAHULUI
312
MILES
ISLAND OF
HAWAII
NORTH HILO-KOHALA
216
219
217
220
221
201
HILO-WAILEA
202
See HILO inset
210
KONA
215
216
214
213
PUNA-KAU
211
212
MILES
HILO
HILO (MAKAI)
203
204
205
206
208
HILO
207
(MAUKA)
209
MILES
ISLAND OF
MOLOKAI
319
318
MOLOKAI
317
MILES
ISLAND OF
LANAI
LANAI
316
LEGEND
CENSUS UPDATE SURVEY AREA BOUNDARY
CENSUS TRACT BOUNDARY
307 CENSUS TRACT NUMBER

1970 CENSUS TRACTS AND 1974-1975 CENSUS UPDATE SURVEY AREAS

Note:
Census Tract 410 includes the islands of Niihau, Lehua and Kaula (not shown) and is not included in the Census Update Survey.

* Includes the islands of Kahoolawe and Molokini (not shown) which are not included in the Census Update Survey.

* Census Tract 319 not included in the Census Update Survey.

STATE OF HAWAII
DEPARTMENT OF PLANNING & ECONOMIC DEVELOPMENT
1977

Table 20.-- POPULATION CHARACTERISTICS, BY DISTRICTS: 1975

District 1/	Median age 2/ (years)	Percent born out of State 2/	Ethnic stock 2/ (percent)			Households	
			Caucasian 3/	Hawaiian 4/	Japanese	Average size	Median income 5/ (dollars)
Oahu, total	25.9	41.2	30.5	15.3	24.6	3.43	14,139
Niu-Hawaii Kai	27.3	44.2	41.9	12.0	25.9	3.77	25,986
Diamond Head-Aina Haina	34.4	38.8	40.1	10.5	27.0	3.61	26,600
Kaimuki-Kapahulu	32.8	18.4	11.8	11.8	48.6	3.52	14,301
Wilhelmina-Palolo	28.5	23.9	18.1	14.4	40.4	3.72	16,202
Manoa-Makiki	28.2	38.3	30.8	6.0	39.5	2.88	14,987
Moiliili-Makiki	24.3	38.1	21.9	9.8	39.9	2.48	11,864
Waikiki	31.2	75.8	65.6	5.8	10.0	1.94	10,302
Downtown-Kakaako	29.8	50.1	21.8	15.8	13.7	2.45	9,458
Nuuanu-Punchbowl	31.4	21.5	16.6	18.4	39.2	3.52	14,755
Upper Kalihi	28.8	32.7	5.1	14.9	29.0	4.18	14,226
Kalihi-Kapalama	27.2	35.3	5.1	18.9	17.7	3.39	10,061
Moanalua-Salt Lake	24.2	59.8	47.6	6.5	21.1	3.61	13,522
Aiea-Halawa	24.5	39.6	35.0	12.2	24.5	3.83	16,879
Pearl City	24.9	32.3	22.1	10.4	41.3	3.87	18,730
Pearl Harbor	18.8	76.0	66.4	8.0	3.3	4.26	12,133
Waipahu	22.3	46.4	20.7	10.3	20.0	4.19	12,760
Ewa-Makakilo	22.4	47.5	32.8	13.0	11.5	4.13	12,674
Waianae Coast	20.5	24.5	16.3	47.5	7.5	4.29	12,566
Mililani-Waipio	23.3	46.7	31.6	14.8	19.0	3.95	16,286
Wahiawa-Schofield	22.1	61.0	43.9	6.0	16.8	3.68	10,371
North Shore-Waialua	24.3	41.7	32.8	17.3	15.6	3.59	11,732
Upper Windward	24.4	40.3	32.8	28.2	12.4	3.77	16,040
Kaneohe	22.7	35.4	34.6	21.1	27.2	4.08	16,734
Kailua	25.8	47.1	53.6	22.0	11.8	3.52	19,815
Waimanalo	22.1	12.9	10.0	65.1	7.0	4.54	12,949

Continued on next page.

Table 20.-- POPULATION CHARACTERISTICS, BY DISTRICTS: 1975 -- Con.

District 1/	Median age 2/ (years)	Percent born out of State 2/	Ethnic stock 2/ (percent			Households	
			Caucasian 3/	Hawaiian 4/	Japanese	Average size	Median income 5/ (dollars)
Hawaii County, total	28	20.8	22.1	25.3	30.4	3.38	11,337
Hilo-Wailea	30	18.2	16.7	18.0	30.7	3.47	10,131
Hilo (makai)	25	22.7	23.8	22.8	31.2	2.99	8,803
Hilo (mauka)	27	13.3	19.4	26.2	38.7	3.66	15,092
Puna-Ka'u	30	25.8	23.2	22.5	31.3	3.41	10,293
Kona	27	26.0	24.5	34.0	27.7	3.28	12,165
North Hilo-Kohala	29	22.7	24.6	25.9	19.8	3.43	9,946
Maui County, total	29.2	31.0	24.7	23.0	25.1	3.37	13,370
Northeast Maui	25.6	26.0	29.2	26.1	17.8	3.76	13,300
Kihei-Kula	31.9	51.8	53.9	18.7	14.1	2.87	14,980
Kahului	28.8	21.4	10.0	12.2	38.9	3.64	14,450
Wailuku-Waikapu	35.2	19.0	17.2	21.8	40.7	3.20	13,770
Lahaina	29.3	44.0	38.6	21.1	22.1	3.10	12,640
Molokai	24.9	23.6	6.7	50.6	9.8	3.96	9,970
Lanai	29.6	36.4	7.3	20.7	16.2	3.50	10,740
Kauai, total (1974)	27.1	...	...	...	...	3.45	10,750
Hanalei	23.7	...	...	...	...	3.47	11,600
Wailua-Anahola	26.9	...	...	...	...	3.40	13,620
Kapaa	24.9	...	...	...	...	3.52	10,190
Puhi-Hanamaulu	23.9	...	...	...	...	3.93	10,330
Lihue	28.5	...	...	...	...	3.12	14,290
Koloa-Poipu	27.0	...	...	...	...	3.24	10,600
Eleele-Kalaheo	29.7	...	...	...	...	3.23	9,680
Kaumakani-Hanapepe	35.3	...	...	...	...	3.38	7,750
Kekaha-Waimea	24.1	...	...	...	...	3.80	10,110

Continued on next page.

1/ See maps immediately preceding this table. These districts consist of groupings of census tracts, which differ in most cases from the districts described in table 4 and the urban places described in tables 5 and 6.

2/ Based on resident population, excluding inmates of institutions and persons living in military barracks or aboard ships.

3/ Includes persons of both Portuguese and non-Portuguese ancestry, reported separately in the source.

4/ Includes Part Hawaiians, reported separately in the source.

5/ Median income of households from all sources during 1974 (1973 for Kauai).

Source: Survey & Marketing Services, Inc., OEO 1975 Census Update Survey for Oahu (September 1976), Hawaii County (September 1976), and Maui County (February 1976); University of Hawaii, Center for Nonmetropolitan Planning and Development, Kauai Socioeconomic Profile (May 1975).

Table 21.-- RELIGION: 1976

[Based on a sample of 4,309 persons on six islands, surveyed in June 1976 by the Oahu Public Communications Council of the Church of Jesus Christ of Latter-Day Saints.]

Religion	Percent of population 1/	Percent of group active 2/
All groups	100	41
Atheist, agnostic	3	11
Protestant	24	42
Jew	(Z)	19
Latter-Day Saints	8	59
Buddhist	11	33
Catholic	31	49
Other	24	32

Z Less than one-half of one percent.

1/ Data independently rounded to the nearest full percent.

2/ For each group, percent reporting active church membership. Data in source were truncated rather than rounded.

Source: Oahu Public Communications Council of the Church of Jesus Christ of Latter-Day Saints, The Purpose of Life Survey (pamphlet, 1976), and underlying tabulations.

Table 22.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1960 TO 1970 AND 1970 TO 1978

			Civilian population				
					Not military dependents		
Period and component	All groups	Armed forces	All civilians	Military dependents	Total	Annual average	Percent distrib.
1960 TO 1970 1/							
Net change	+137,141	+3,204	+133,937	+ 1,801	+132,136	+13,214	100.0
Natural increase	125,519	- 642	126,161	42,351	83,810	8,381	63.4
Live births	163,762	-	163,762	43,908	119,854	11,985	...
Deaths	38,243	642	37,601	1,557	36,044	3,604	...
Net military separations 2/	-	+4,130	- 4,120	-	- 4,120	- 412	- 3.1
Net migration	+ 11,622	- 274	+ 11,896	-40,550	+ 52,446	+ 5,245	39.7
1970 TO 1978 3/							
Net change	+126,700	+1,300	+125,300	- 800	+126,100	+15,300	100.0
Natural increase	96,700	- 400	97,100	29,500	67,600	8,200	53.6
Live births	131,700	-	131,700	30,800	100,900	12,200	...
Deaths	35,000	- 400	34,600	1,300	33,300	4,000	...
Net military separations 2/	-	-2,700	+ 2,700	-	+ 2,700	+ 300	2.2
Net migration	+ 30,000	+4,500	+ 25,500	-30,200	+ 55,700	+ 6,800	44.2

1/ April 1, 1960 to March 31, 1970.

2/ Separations less inductions for armed forces.

3/ April 1, 1970 to June 30, 1978.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1978 (Statistical Report 131, April 2, 1978), table 5.

Table 23.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1968 TO 1978

Calendar year	Number arriving, by military status				Persons per party	High status 1/ (percent)	Median age (years)	From West Coast 2/ (percent)
	Total	Military personnel	Military dependents	Other civilians				
1968 ...	42,236	12,655	7,619	21,962	1.43	68.3	24.1	38.8
1969 ...	41,162	12,198	8,336	20,628	1.45	61.9	24.0	41.2
1970 ...	40,073	8,561	7,129	24,383	1.44	65.6	24.4	42.8
1971 ...	41,562	9,355	8,649	23,558	1.48	64.2	24.3	38.6
1972 ...	44,388	10,267	11,637	22,484	1.57	64.7	24.1	35.1
1973 ...	36,886	9,200	6,180	21,506	1.40	61.6	24.2	39.1
1974 ...	37,007	9,421	8,744	18,842	1.53	67.4	24.2	42.4
1975 ...	39,233	10,006	10,887	18,340	1.58	67.3	23.6	35.1
1976 ...	40,690	10,991	10,518	19,181	1.55	67.1	24.3	34.1
1977 ...	43,617	12,361	12,771	18,485	1.64	70.2	24.0	30.1
1978 3/.	39,476	12,294	11,783	15,399	1.63	70.3	24.4	29.9

1/ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

2/ Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

3/ There is evidence that the decline between 1977 and 1978 reflects a low response rate to the revised questionnaire introduced on July 1, 1978, rather than a true drop in the number of migrants.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants (annual).

Table 24.-- IMMIGRANTS ADMITTED AND PERSONS NATURALIZED: 1967 TO 1977

Years 1/	Immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, by country of birth							Persons naturalized
	Total	Canada	China and Taiwan	Japan	Korea	Philippines	Other countries 2/	
1967	3,825	135	327	382	(3/)	2,147	834	1,902
1968 4/	4,693	159	238	186	91	3,033	986	1,601
1969	5,199	127	389	317	284	3,181	901	1,607
1970	9,013	90	423	363	596	6,426	1,115	2,658
1971	6,055	81	271	409	568	3,704	1,022	2,135
1972	6,765	92	392	603	868	3,764	1,046	2,389
1973	6,881	64	455	544	1,305	3,179	1,334	2,099
1974	6,549	64	429	464	1,127	3,418	1,047	2,833
1975	7,012	87	555	587	1,476	2,913	1,394	3,094
1976	7,789	110	631	556	1,515	3,222	1,755	3,130
1976 5/	1,882	45	153	(3/)	278	859	547	1,118
1977 6/	7,825	175	527	495	1,488	3,568	1,572	4,532

1/ Twelve-month periods ended June 30 unless otherwise indicated.

2/ Includes nonrefugee Vietnamese (196 in 1975, 341 in 1976, and 137 in fiscal 1977) but excludes many refugee Vietnamese still in parole status as of September 30, 1977.

3/ Included with "other countries."

4/ Data for Korea and Japan cover only the six-month period ended December 31, 1967.

5/ July 1-September 30, 1976.

6/ Twelve-month period ended September 30.

Source: U.S. Immigration and Naturalization Service, Annual Report for 1966-1976 and records.

Table 25.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1977 AND 1978

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on sample surveys of 17,295 persons in 1977 and 15,960 persons in 1978.]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1977				
Population 1 and over	846,052	35,313	67,573	743,166
Same house	685,197	19,303	42,764	623,130
Different house, same island	97,869	6,923	8,739	82,208
Different island	5,557	-	241	5,316
Different state	40,959	7,471	14,022	19,466
U.S. territory or possession	1,214	285	420	509
Different country	7,758	1,135	1,255	5,368
Previous residence not reported ...	7,499	197	132	7,170
Migrants 1/	49,931	8,891	15,697	25,343
Percent of number reporting	6.0	25.3	23.3	3.4
1978				
Population 1 and over	848,044	39,785	58,001	760,258
Same house	692,106	15,853	34,020	642,233
Different house, same island	92,154	7,056	7,862	77,236
Different island	6,126	113	141	5,871
Different state	39,833	5,942	13,208	20,683
U.S. territory or possession	996	-	172	824
Different country	8,939	773	2,329	5,837
Previous residence not reported ...	7,890	47	269	7,574
Migrants 1/	49,768	6,715	15,709	27,344
Percent of number reporting	5.9	22.6	27.2	3.6

1/ From different state, territory, or country.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1977 (Population Report, No. 11, January 1979), p. 8, and Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation of 1978 data.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, morbidity, hospitals, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth was 74.11 years for males and 77.94 years for females in 1975. The crude death rate in 1978 was only 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 12.3 in 1977. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fifth. The 1978 crude birth rate was 18.7 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,821 in 1975. Over 97 percent of all babies were born in hospitals in 1977, and over one-fifth were born to military couples. One out of seven births was illegitimate. There were 6,685 fetal deaths in 1977, including 5,050 elective abortions. Marriages numbered 10,731 in 1978, with about 23 percent accounted for by nonresidents. Divorces reached a 1978 total of 4,837. The State had 22 acute care civilian hospitals (with 2,241 beds), 32 skilled nursing and intermediate care facilities (with 2,133 beds), and 253 care homes (with 1,666 beds) in 1977. There were 1,500 physicians and surgeons, 594 dentists, 5,127 professional nurses, and 340 pharmacists licensed and living in Hawaii as of July 1978. Acute conditions per 100 persons averaged 199 per year in 1972-1974, with respiratory conditions the most common complaint (at 136 cases per 100 persons). Among chronic conditions reported in the 1972-1974 survey data, the most frequently mentioned were hypertension without heart involvement (5.8 per 100 persons), hay fever (4.4), and asthma (3.6). The most common communicable disease reported to authorities in 1977 was scarlet fever, with 5,919 cases. Dental health was only fair: the average number of decayed, missing or filled teeth when last surveyed was 6.85 for intermediate school students and 10.61 for those in high school.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1978 contain similar data for the nation as a whole.

Table 26 .-- BIRTHS AND DEATHS: 1968 TO 1978

[Place of occurrence basis]

			Rates per 1,000 resident population		Rates per 1,000 live births		
Calendar year	Births	Deaths 1/	Births	Deaths 1/	Illegitimate births	Fetal deaths 2/	Infant deaths 3/
1968	14,595	4,250	19.9	5.8	94.8	14.3	19.0
1969	15,690	4,214	20.9	5.6	96.6	13.7	19.2
1970	16,467	4,197	21.3	5.4	95.8	20.6	19.1
1971	15,845	4,351	19.9	5.5	88.4	23.5	16.0
1972	15,413	4,483	18.8	5.5	93.0	22.8	17.5
1973	15,358	4,579	18.2	5.4	104.0	16.4	13.7
1974	15,528	4,598	18.2	5.4	108.8	16.3	16.0
1975	15,766	4,572	18.2	5.3	123.2	18.9	13.7
1976	16,409	4,717	18.6	5.3	125.0	20.8	11.2
1977	16,983	4,725	19.1	5.3	143.3	21.6	12.3
1978	16,755	4,859	18.7	5.4	(NA)	(NA)	(NA)

NA Not available.
1/ Includes armed forces.
2/ 20 weeks gestation and over. Includes elective abortions.
3/ Under 1 year of age.
Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R&S Report, No. 5 (June 1974); Statistical Report for 1973-1977; and "Vital Statistics Summary, 1978."

Table 27.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1976 TO 1978

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
De facto population: 1/						
1976	952,700	57,800	894,900	67,000	827,900	124,800
1977	969,200	56,500	912,700	65,000	847,700	121,500
1978 2/ ...	984,700	56,500	928,200	61,100	867,100	117,600
Live births:						
1976	16,409	-	16,409	3,803	12,606	3,803
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,665	13,067	3,665
Deaths:						
1976	4,717	67	4,650	161	4,489	228
1977	4,724	76	4,648	156	4,492	232
1978	4,860	86	4,774	147	4,627	233
Birth rate: 3/						
1976	17.2	0	18.3	56.8	15.2	30.5
1977	17.5	0	18.6	58.0	15.6	31.0
1978	17.0	0	18.1	60.0	15.1	31.2
Death rate: 3/						
1976	5.0	1.2	5.2	2.4	5.4	1.8
1977	4.9	1.3	5.1	2.4	5.3	1.9
1978	4.9	1.5	5.1	2.4	5.3	2.0

1/ Estimates for armed forces are from the Bureau of the Census; for dependents, from annual DPED survey of local commanding officers.

2/ Provisional.

3/ Per 1,000 de facto population. For rates based on resident population, see preceding table.

Source: Population from Hawaii State Department of Planning and Economic Development, Statistical Report 131 (April 2, 1979), table 1; births and deaths from Hawaii State Department of Health, Statistical Report (annual) and records.

Table 28.— CHARACTERISTICS OF BIRTHS AND DEATHS: 1967 TO 1977

Subject	1967 1/	1976 2/	1977 2/
LIVE BIRTHS			
Number 3/	14,735	16,292	16,874
Percent on Oahu 3/	85.0	79.9	79.4
Males per 100 females 3/	106.5	107.2	106.1
Percent attended by M.D. in hospital	99.5	97.3	97.4
Percent with prenatal visit in first 3 months	51.3	70.4	70.2
Percent of mixed race 4/	42.2	44.4	46.0
Median age of mother (years)	25.2	25.5	25.6
Percent first births to mother	33.4	36.6	35.4
Median weight of single births (grams)	3,199	3,260	3,272
Percent of births plural	1.6	1.8	1.8
Percent of births premature (under 2,500 grams)	8.8	7.2	7.5
Percent with one or more congenital malformations.	1.0	0.9	0.8
DEATHS, ALL AGES			
Number 3/	3,732	4,349	4,349
Percent on Oahu 3/	72.0	72.4	74.5
Males per 100 females	159.7	152.7	152.1
Median age (years)	66.2	67.8	67.6
INFANT DEATHS			
Number, under 1 year	250	172	196
Rate per 1,000 live births:			
Under 1 day	8.9	4.2	5.0
Under 1 week	12.1	6.3	6.8
Under 1 month	13.4	7.7	7.9
Under 1 year	16.9	10.6	11.6
FETAL DEATHS			
Total	1,007	6,838	6,685
Rate per 1,000 deliveries	64	296	284
Fetal deaths, 20 or more weeks gestation	202	334	367
Standard fetal deaths	190	1,724	1,578
Elective abortions	12	5,163	5,050
Per 1,000 live births	0.8	317	299

1/ Unless otherwise specified, on a place of occurrence basis. Data for deaths (all ages) exclude armed forces.

2/ Place of residence basis. Data include armed forces.

3/ Data for all years are on a place of residence basis.

4/ All Part Hawaiian babies are classified as being of mixed race. Base excludes births with unknown parentage.

Source: Hawaii State Department of Health, Statistical Report for 1967, 1976, and 1977.

Table 29.-- CAUSE OF DEATH: 1967 AND 1977

[Place of residence basis.]

Cause of death 1/	Number, 1977	Percent distribution		Rate per 100,000 population	
		1977	1967 2/	1977	1967 2/
All causes	4,349	100.0	100.0	486.1	513.0
Diseases of the heart	1,323	30.4	32.8	147.9	168.2
Malignant neoplasms	1,121	25.8	18.6	125.3	95.6
Cerebrovascular diseases	358	8.2	8.3	40.0	42.5
All accidents	241	5.5	7.5	26.9	38.6
Influenza and pneumonia	150	3.4	4.3	16.8	22.2
Suicide	111	2.6	1.7	12.4	8.8
Certain causes of mortality in early infancy	90	2.1	3.7	10.1	19.1
Diabetes Mellitus	86	2.0	2.9	9.6	14.9
Cirrhosis of liver	74	1.7	1.5	8.3	7.5
Congenital anomalies	57	1.3	2.1	6.4	10.5
Homicide and legal intervention	55	1.3	0.5	6.1	2.5
Bronchitis, emphysema, and asthma 3/	49	1.1	1.2	5.5	6.6
Symptoms and ill-defined causes	46	1.1	0.7	5.1	4.0
All other causes	359	8.3	12.3	40.1	62.9

1/ The leading causes of death in 1977, listed in order of deaths for that year.
2/ Excludes armed forces deaths.
3/ Excludes emphysema in 1967.
Source: Statistical Report, Department of Health, State of Hawaii, 1977, p. 25.

Table 30.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1967, 1976, AND 1977

Method	1967 1/	1976 2/	1977 2/	Percent distribution		
				1967 1/	1976 2/	1977 2/
All methods ..	3,897	4,719	4,725	100.0	100.0	100.0
Burial	2,117	2,249	2,213	54.3	47.7	46.8
Cremation	1,422	1,893	1,931	36.5	40.1	40.9
Removal	331	571	573	8.5	12.1	12.1
Other and unknown .	27	6	8	0.7	0.1	0.2

1/ Excludes armed forces deaths.
2/ Includes armed forces deaths.
Source: Hawaii State Department of Health, Statistical Report for 1967, 1976, and 1977.

Table 31.-- SELECTED LIFE TABLE VALUES: 1975

Exact age in years (x)	Average expectation of life in years (e_x)		Number surviving to specified age per 1,000 born alive (l_x)	
	Male	Female	Male	Female
Birth	74.03	77.85	1,000	1,000
Age 25	51.36	54.36	966	980
Age 45	32.97	35.32	929	958
Age 65	17.43	17.94	768	863

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1920-1970" (by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke), R & S Report, No. 26, June 1979, p. 27.

Table 32.-- HOSPITAL AND CARE HOME FACILITIES AND USE, BY CATEGORY: 1977

Category	Number of institutions 1/	Beds	Admissions	Daily census	Length of stay	Percent occupancy
Acute care hospitals:						
Civilian	22	2,241	94,679	1,523.7	5.9	68.0
Military	1	566	19,826	431.2	7.9	76.2
Specialty long-term care hospitals	8	1,029	1,817	894.6	208.5	86.9
Skilled nursing and intermediate care facilities:						
Oahu	19	1,466	1,758	1,414.1	302.7	96.5
Other islands	13	667	1,107	646.9	177.8	97.0
Care homes:						
Residential	22	775	...	...	...	...
Family	231	891	...	...	...	...

1/ Some institutions are included in more than one category.

Source follows next table.

Table 33.-- HOSPITAL AND CARE HOME BEDS, BY GEOGRAPHIC AREA: 1977

Geographic area	Total beds	In acute care hospitals		In spec. long-term care hospitals 1/	In skilled nursing and int. care fac.	In care homes
		Civilian	Military			
State total ..	7,635	2,241	566	1,029	2,133	1,666
Oahu	6,016	1,660	566	985	1,466	1,339
Honolulu	(NA)	1,427	566	153	(NA)	(NA)
Suburban	(NA)	233	-	832	(NA)	(NA)
Hawaii County	687	267	-	-	306	114
Maui County	553	180	-	24	240	109
Lanai	14	6	-	-	8	-
Maui	420	149	-	-	226	45
Molokai	119	25	-	24	6	64
Kauai County	379	134	-	20	121	104

NA Not available.

1/ Includes leprosy, psychiatric, tuberculosis, orthopedic, and mentally retarded.

Source: Statistical Report, Department of Health, State of Hawaii, 1977, pp. 57-60 and 119.

Table 34.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1967 TO 1978

Year 1/	Patients active, end of period			Admissions		Term-ina-tions	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1967 ..	(NA)	(NA)	2,797	4,212	2,299	(NA)	5,569
1968 ..	(NA)	(NA)	3,222	4,463	(NA)	(NA)	(NA)
1969 ..	(NA)	(NA)	3,762	5,084	(NA)	(NA)	(NA)
1970 ..	(NA)	(NA)	3,199	5,349	(NA)	(NA)	(NA)
1971 ..	(NA)	(NA)	4,905	(NA)	(NA)	(NA)	(NA)
1972 ..	5,327	333	4,994	(NA)	(NA)	(NA)	(NA)
1973 ..	6,052	320	5,732	5,220	(NA)	4,368	9,851
1974 ..	6,500	334	6,166	5,073	4,789	4,618	10,522
1975 ..	7,090	367	6,723	5,233	4,947	4,633	11,101
1976 ..	6,979	321	6,658	5,533	5,174	5,684	11,935
1977 ..	6,905	226	6,679	5,453	5,171	5,529	11,806
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642

NA Not available.

1/ Years ended June 30 through 1971 and calendar years thereafter.

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 35.-- SPECIFIED COMMUNICABLE DISEASES: 1967 TO 1977

Disease	Cases			Deaths		
	1967	1976	1977	1967	1976	1977
All reportable diseases .	11,034	15,377	14,198	36	23	24
Chickenpox	879	1,047	948	-	1	-
Gonorrhea	685	3,591	4,256	-	-	-
Hepatitis, infect. & serum ...	55	240	239	1	7	5
Influenza	613	2,624	585	1	4	1
Leprosy	13	34	27	2	-	-
Measles (Rubeola)	239	11	51	-	-	-
Measles, German (Rubella)	356	22	438	-	-	-
Meningitis	220	96	84	13	7	11
Mumps	3,187	49	42	-	-	-
Salmonellosis	602	475	603	-	-	1
Scarlet fever, other strep. ..	3,036	5,905	5,919	-	-	-
Syphilis	134	181	89	1	-	-
Tuberculosis	351	665	584	15	3	6
All others	664	437	333	3	1	-

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement (annual).

Table 36.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: JULY 7, 1978

Place of residence	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	2,254	788	6,818	513
Hawaii residents	1,500	594	5,127	340
Hawaii	96	49	388	25
Maui	83	26	323	25
Lanai	1	1	11	-
Molokai	5	5	25	2
Oahu	1,263	494	4,201	274
Kauai	52	19	179	14
Niihau	-	-	-	-
Nonresidents	754	194	1,691	173

1/ Permanent only.

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 37.— MARRIAGES AND DIVORCES: 1970 TO 1978

[Place of occurrence basis]

Calendar year	Marriages	Divorces and annulments 1/	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces 1/	Resident grooms	Interracial
1970	10,599	2,589	13.7	3.3	69.3	33.7
1971	9,734	3,691	12.2	4.6	77.3	38.7
1972	9,750	3,891	11.9	4.7	81.3	38.6
1973	9,776	4,170	11.6	4.9	84.7	40.6
1974	9,649	4,111	11.3	4.8	84.6	40.1
1975	9,673	4,265	11.1	4.9	84.4	39.6
1976	9,769	4,712	11.1	5.3	82.4	38.8
1977	10,266	4,601	11.5	5.1	79.3	37.5
1978	10,731	4,837	12.0	5.4	(NA)	(NA)

1/ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1977; and "Vital Statistics Summary, 1978."

Table 38.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1967 TO 1977

[Place of occurrence basis.]

Subject	1967	1976	1977
MARRIAGES			
Number	7,345	9,769	10,266
Percent on Oahu	86.7	78.0	74.8
Percent Hawaii residents:			
Both bride and groom	76.7	79.6	76.5
One partner only	8.9	5.5	5.6
Neither bride nor groom	14.4	14.9	17.9
Median age (years):			
Groom	24.5	27.0	30.0
Bride	22.9	24.5	27.0
Percent previously married:			
Groom	18.5	33.4	35.3
Bride	19.5	32.2	33.8
DIVORCES AND ANNULMENTS			
Number	1,451	4,712	4,601
Divorces	1,424	4,687	4,587
Annulments	27	25	14
Percent occurring on Oahu	88.9	83.6	80.4
Percent nonresident:			
Husband	10.5	11.0	11.4
Wife	14.4	12.4	11.4
Neither partner	75.1	76.6	77.2
Median age (years):			
Husband	36.2	31.6	32.3
Wife	32.6	29.0	29.6
Percent interracial	35.7	37.6	38.4
Percent with children under 18 years	60.0	58.5	57.3
Median years married	7.4	5.5	5.8

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 39.--MARRIAGES, TOTAL AND INTERRACIAL, BY RACE OF GROOM AND BRIDE: 1977

Race	All marriages		Interracial marriages		Percent interracial	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
All race .	10,266	10,266	3,850	3,850	37.5	37.5
Caucasian	5,110	4,798	1,248	936	24.4	19.5
Hawaiian	73	48	65	40	89.0	83.3
Part Hawaiian .	1,338	1,403	725	790	54.1	56.3
Chinese	338	409	206	277	60.9	67.7
Filipino	989	1,070	476	557	48.1	52.0
Japanese	1,468	1,595	567	694	38.6	43.5
Puerto Rican ..	132	106	108	82	81.8	77.3
Korean	128	304	69	245	53.9	80.5
Samoan	156	147	64	55	41.0	37.4
Negro	356	185	201	30	56.4	16.2
Other races ...	175	199	119	148	68.0	71.8
Unknown	3	2	2	1	...	...

Source: Hawaii State Department of Health, Statistical Report, 1977, p. 51.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; illiteracy; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1978-1979 totaled 206,812, about 1.0 percent less than in the preceding year and 4.0 percent below the all-time high reached in 1971-1972. There were 229 public schools with 7,930 classroom teachers and 170,515 students (17.6 percent of the total). There were also 136 private schools with 1,885 teachers and 36,297 pupils. Students graduating from public and private high schools in 1977-1978 numbered 13,867. Some 49,736 students attended colleges and universities in the State in 1978-1979, including 21,225 on the Manoa Campus of the University of Hawaii , 234 at West Oahu College, 3,053 at UH-Hilo, 19,291 at six community colleges, and 5,933 in four private four-year colleges. Eighty-seven percent of the children 5 and 6 years old were in school in 1970 (compared with 68 percent in 1950), and 53 percent in the 18- and 19-year old group were enrolled (compared with 36 percent twenty years earlier). The expenditure per pupil in public schools rose from $818 in 1969-1970 to $1,884 in 1977-1978. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1977 approximately 19.4 percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 45 locations in all four counties, had 3.03 million books, film reels, phonorecords, and other collections in 1978, with an annual circulation of 4.86 million; the University of Hawaii libraries in the same year counted 1.92 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, U.S. Department of Health, Education, and Welfare, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1978 presents comparable information for the nation as a whole.

Table 40.— PUBLIC AND PRIVATE SCHOOLS, TEACHERS, MEMBERSHIP, AND GRADUATES: 1958-59 TO 1978-79

School year	Schools 1/		Teachers 1/		Enrollment or membership 1/			High school grad.	
	Public	Private	Public	Private	Total	Public 2/	Private 3/	Public	Private
1958-59	208	92	4,603	1,101	163,787	135,088	28,699	5,659	1,512
1959-60	207	96	4,731	1,139	169,925	140,666	29,259	6,288	1,611
1960-61	209	96	4,850	1,151	175,172	145,134	30,038	7,267	1,731
1961-62	215	92	5,013	1,213	180,006	149,554	30,452	7,797	1,785
1962-63	216	99	5,179	1,227	184,231	153,298	30,933	7,763	1,748
1963-64	219	95	5,060	1,205	187,825	156,651	31,174	8,327	1,866
1964-65	214	98	5,368	1,481	193,047	160,681	32,366	9,239	1,976
1965-66	209	99	5,846	1,477	194,595	162,164	32,431	9,009	2,048
1966-67	210	112	6,394	1,492	200,242	166,375	33,867	9,540	2,175
1967-68	215	114	6,624	1,594	203,734	169,673	34,061	9,430	2,133
1968-69	217	116	7,098	1,547	207,231	173,718	33,513	9,800	2,173
1969-70	216	123	7,300	1,551	211,215	178,564	32,651	10,377	2,209
1970-71 4/ ..	216	117	7,948	1,698	213,165	180,770	32,395	10,471	2,178
1971-72	219	112	8,113	1,715	215,524	182,957	32,567	11,185	2,119
1972-73	222	119	8,187	1,797	214,360	181,587	32,773	11,147	2,174
1973-74	225	120	7,780	1,948	212,012	178,307	33,705	11,464	2,148
1974-75	225	120	7,711	1,932	211,702	176,844	34,858	11,283	2,262
1975-76	225	119	7,860	1,981	212,171	176,232	35,939	11,080	2,195
1976-77 4/ ..	227	126	7,914	2,107	210,736	174,838	35,898	11,637	2,186
1977-78	228	128	7,891	2,081	208,830	172,649	36,181	11,464	2,403
1978-79	229	136	7,930	1,885	206,812	170,515	36,297	(NA)	(NA)

NA Not available.

1/ December data through 1970-1971 and September data thereafter.

2/ Includes special schools but excludes pre-kindergarten.

3/ Includes special schools and pre-kindergarten.

4/ Membership data revised from figures in The State of Hawaii Data Book 1977, table 46.

Source: Hawaii State Department of Education, records.

Table 41.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 1978, AND HIGH SCHOOL GRADUATES, 1977-1978, BY SCHOOL CONTROL AND ISLAND

Island	Number of schools, Sept. 1978		Number of teachers, Sept. 1978		Pupil membership, Sept. 1978			High school graduates, 1977-1978	
	Public	Private	Public	Private	Total	Public 1/	Private 2/	Public	Private
State total ..	229	136	7,930	1,885	206,812	170,515	36,297	11,464	2,403
Hawaii	29	10	872	112	19,614	17,942	1,672	1,207	152
Maui	19	11	526	92	12,994	10,982	2,012	772	125
Lanai	1	-	32	-	523	523	-	48	-
Molokai	5	1	84	2	1,574	1,542	32	92	-
Oahu	161	106	6,020	1,634	163,583	131,950	31,633	8,754	2,126
Kauai	13	8	393	45	8,470	7,522	948	591	-
Niihau	1	-	3	-	54	54	-	-	-

1/ Includes special schools but excludes pre-kindergarten.
2/ Includes special schools and pre-kindergarten.
Source: Hawaii State Department of Education, records.

Table 42.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADE: SEPTEMBER 1978

[Includes special education schools and special education students within the regular schools.]

Grade	Total	Public	Private
All grades	207,058	170,761	36,297
Nursery	2,409	246	2,163
Kindergarten	14,385	11,832	2,553
1	14,934	12,368	2,566
2	15,357	12,881	2,476
3	15,541	13,011	2,530
4	14,666	12,231	2,435
5	13,742	11,445	2,297
6	13,715	11,339	2,376
7	14,575	11,626	2,949
8	15,001	12,085	2,916
9	16,513	13,733	2,780
10	17,096	14,220	2,876
11	15,670	13,011	2,659
12	14,332	11,823	2,509
Specials	9,122	8,910	212

Source: Hawaii State Department of Education, records.

Table 43.-- EXPENDITURES, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1969-1970 TO 1978-1979

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1969-1970 ...	146,753,192	37,564,333	818.19	9,591	179
1970-1971 ...	179,070,294	34,539,101	988.54	10,424	177 1/2
1971-1972 ...	183,830,422	35,269,593	1,007.10	10,459	178 1/2
1972-1973 ...	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974 ...	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ...	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ...	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ...	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ...	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ...	(NA)	(NA)	(NA)	18,360	173

NA Not available.

1/ Based on average daily membership.

Source: Hawaii State Department of Education, records.

Table 44.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1970 TO 1978

[Fall enrollment in regular credit programs, including concurrent registrants and early admits.]

Year (Fall)	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 1/	West Oahu College 2/
		Total	Under-graduates	Grad-uates	Other 4/		
1970	33,127	21,090	15,810	3,441	1,839	1,741	-
1971	36,368	22,061	16,589	3,913	1,559	2,265	-
1972	38,899	22,371	17,161	4,069	1,141	2,594	-
1973	39,858	22,272	16,905	4,110	1,257	2,784	-
1974	40,719	21,526	16,215	4,059	1,252	3,031	-
1975	44,050	21,260	15,671	4,111	1,478	3,526	-
1976	44,326	21,356	15,370	4,284	1,702	3,322	139
1977	43,888	21,106	15,208	4,280	1,618	3,280	201
1978	43,803	21,225	15,148	4,350	1,727	3,053	234

Year (Fall)	Community colleges 3/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward 5/	Kauai	Maui
1970	10,296	1,937	2,205	4,469	-	627	1,058
1971	12,042	2,167	2,765	5,177	-	839	1,094
1972	13,934	2,561	3,092	5,373	538	1,023	1,347
1973	14,802	2,774	3,559	5,376	829	1,004	1,260
1974	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978	19,291	4,386	4,738	5,893	1,415	1,137	1,722

Footnotes and source follow next table.

Table 45.-- DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII: 1970 TO 1978

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First profes- sional 6/	Other 7/
1970	60	2,329	1,018	53	-	290
1971	41	2,644	1,103	78	-	420
1972	49	2,907	1,167	80	-	404
1973	65	3,050	1,272	98	-	370
1974	85	3,260	1,165	109	-	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164
1978	61	3,077	1,007	129	125	157

Year ended June 30	University of Hawaii at Hilo 1/			West Oahu College: bachelor 2/	Community colleges 3/	
	Certifi- cates	Associate degrees	Bachelor degrees		Certifi- cates 8/	Associate degrees
1970	-	-	-	-	378	585
1971	151	45	37	-	424	768
1972	136	99	69	-	347	960
1973	121	124	155	-	439	1,062
1974	83	139	146	-	329	1,179
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864

1/ Includes Hilo College, College of Agriculture, and Hawaii Community College.

2/ Opened Spring 1976.

3/ Excludes Hawaii Community College, part of the University of Hawaii at Hilo.

4/ Unclassified or no data on student level.

5/ Opened for instruction in 1972.

6/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

7/ Certificates in Dental Hygiene and professional diplomas.

8/ Includes certificates of achievement.

Source: University of Hawaii, Analytical Studies Office, data provided January 11, 1979.

Table 46.-- FALL ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1977 AND 1978

School year and institution	Fall enrollment in regular credit programs			Earned degrees conferred during year ended June 30			
	Total	Undergraduate	Graduate	Associate	Bachelor's	Master's	Others
1977							
All private institutions	5,864	5,716	148	50	526	-	-
Brigham Young Univ. - Hawaii Campus	1,615	1,595	20	4	86	-	-
Chaminade Univ. of Honolulu	2,561	2,433	128	46	367	-	-
Hawaii Loa College	227	227	-	-	33	-	-
Hawaii Pacific College	1,461	1,461	-	-	40	-	-
1978							
All private institutions	5,933	5,785	148	47	653	45	-
Brigham Young Univ. - Hawaii Campus	1,775	1,751	24	4	104	-	-
Chaminade Univ. of Honolulu	2,299	2,175	124	43	458	45	-
Hawaii Loa College	290	290	-	-	28	-	-
Hawaii Pacific College	1,569	1,569	-	-	63	-	-

Source: Data compiled by Hawaii State Department of Planning and Economic Development from school officials.

Table 47.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1977

[Excludes persons in institutions or military barracks or on Niihau or in Kalawao. Based on a sample of 9,614 persons 25 years old and over.]

Years of school completed	Age			
	25 years and over	25 to 44 years	45 to 64 years	65 years and over
All levels	486,566	254,957	173,613	57,997
None	7,485	272	1,386	5,826
1 to 4 years	13,741	1,482	4,677	7,582
5 to 8 years	50,581	6,133	27,176	17,272
9 to 11 years	43,314	15,908	23,020	4,386
12 years	164,831	94,903	61,678	8,251
Vocational	26,694	16,974	8,486	1,235
13 to 15 years	75,825	54,336	17,544	3,945
16 years	55,174	36,391	14,524	4,259
17 years or more	37,093	25,214	10,254	1,625
Not reported	11,829	3,345	4,868	3,617
Median (years) 1/	12.7	13.0	12.4	8.0

1/ Excludes vocational and not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 48.-- CHARACTERISTICS OF THE HAWAII STATE AND UNIVERSITY OF HAWAII LIBRARY SYSTEMS: 1978

Library system and district or campus	Library locations, June 30	Personnel, June 30 1/			Collections, June 30			Circulation, year ended June 30
		Total	Librarians	All others	Books	Audio-visual microforms	Other print	
Hawaii State system, total	45	425.45	115	310.00	1,837,166	425,342	770,527	4,860,029
Oahu	21	234.50	74	160.50	1,274,467	384,374	569,055	3,414,380
Hawaii State Library	1	69.00	24	45.00	350,381	330,119	344,945	527,418
Library for the Handicapped	1	9.00	2	7.00	44,389	13,779	1,385	49,045
East Oahu Library District	12	98.50	31	67.50	584,129	29,398	170,781	1,981,418
West Oahu Library District	7	58.00	17	41.00	295,568	11,078	51,944	856,499
Other islands	24	126.45	30	96.45	562,699	40,968	201,472	1,445,649
Hawaii Library District	13	60.45	15	45.45	242,809	17,087	54,943	671,046
Kauai Library District	5	31.00	6	25.00	151,331	11,182	106,493	396,541
Maui Library District	6	35.00	9	26.00	168,559	12,699	40,036	378,062
University of Hawaii system, total ..	...	248.5	...	...	1,920,480	...	...	604,812
University of Hawaii at Manoa	...	156.0	...	...	1,602,532	...	...	401,756
West Oahu College	...	1.0	...	...	6,340	...	...	2,403
University of Hawaii at Hilo	...	14.0	...	...	101,205	...	...	23,939
Community colleges	...	77.5	...	...	210,403	...	...	176,714
Honolulu	...	17.0	...	...	36,516	...	...	28,325
Kapiolani	...	8.6	...	...	28,322	...	...	8,979
Leeward	...	22.5	...	...	54,197	...	...	63,760
Windward	...	6.0	...	...	18,679	...	...	17,465
Kauai	...	6.0	...	...	24,991	...	...	18,720
Maui	...	7.4	...	...	31,127	...	...	32,472
Hawaii	...	10.0	...	...	16,571	...	...	6,993

1/ Full-time equivalent basis. The Hawaii State system data are limited to regular positions, and the total for the State system includes 64.50 positions not allocated by island or district. The University of Hawaii system data, not reported by type of position, include both professional and non-professional personnel but exclude student help.

Source: Office of the State Librarian, Division of Library Services, Hawaii State Department of Education, records; University Libraries, University of Hawaii at Manoa, records.

Table 49.-- READING: 1976

[Based on telephone interviews with 1,000 adults throughout the State, in November and December 1976.]

Subject	Percent
Total	100.0
Times visited library in past 12 months:	
None	38.7
1 to 11 times	32.5
12 or more times	27.6
Don't know	1.2
Number of books read or referred to during past month:	
None	39.4
One	10.9
Two	11.5
Three	8.2
Four or more	29.3
Number of magazines read on a regular basis:	
None	16.8
One	10.7
Two	20.1
Three	19.8
Four or more	31.5
Don't know, refused	1.1

Source: Survey and Marketing Services, Inc., Analysis of Service and Development of Performance Measurements for State of Hawaii Libraries, Vol. II, A Survey of Residents in Relation to Public Library Use (Hawaii State Department of Education, Office of Library Services, February 1978), pp. 10, 15, and 16.

Section 4

LAW ENFORCEMENT, COURTS, AND CORRECTIONS

Statistics in this section refer to crime and delinquency, the police, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1978 numbered 64,000, or almost twice as many as in 1968. The rate per 1,000 population has increased from 47 in 1968 to 71 in 1978. Eighty-one percent of the 1978 total occurred on Oahu. For the State as a whole, major offenses known to police in 1978 included 60 murders or cases of non-negligent manslaughter, 231 rapes, 1,556 robberies, 572 aggravated assults, 17,369 burglaries, 39,027 cases of larceny, and 5,119 auto thefts. Organized crime accounted for 55 murders in a ten-year period. The value of property reported stolen in 1978 amounted to $22 million, exclusive of motor vehicles; only 9.8 percent was recovered. Asked "Have you or your immediate family been a victim of crime (burglary, assult, etc.) in Hawaii since 1970?," forty percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Thirty-four percent of the major offenses known to police were cleared by arrest or otherwise in 1978. Fifty percent of the persons arrested for major crimes and 21 percent of those arrested for lesser offenses in 1978 were less than eighteen years of age. Inmates of the ten State correctional institutions averaged 594 during 1978; of this number, 365 were adults serving time for felonies. Cases filed in the State Supreme Court, four circuit courts, and four district courts and their divisions during fiscal 1978 numbered 751,000, including 665,000 traffic cases. Filings in the United States District Court for Hawaii included 535 civil cases, 1,120 criminal cases, and 547 bankruptcy cases. The last legal execution in Hawaii took place in 1944.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Department of Social Services and Housing, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Statistical Analysis Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1978, Section 6.

Table 50.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY: 1968 TO 1978

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1968.......	34,295	4,669	31,044	1,297	730	1,224
1969	36,109	4,813	32,636	1,406	779	1,288
1970	41,201	5,322	36,779	1,626	993	1,803
1971	42,952	5,382	37,459	1,867	1,326	2,300
1972	37,091	4,518	31,594	2,047	1,195	2,255
1973	41,850	4,958	35,275	2,612	1,596	2,367
1974	51,451	6,024	43,572	3,031	1,732	3,116
1975	51,777	5,966	43,612	3,192	1,777	3,196
1976	55,603	6,293	45,307	3,918	2,172	4,206
1977	57,977	6,504	46,389	4,178	2,127	5,283
1978	63,934	7,131	51,892	4,439	2,406	5,197

1/ Annual rate per 100,000 resident population (including armed forces), July 1.

Source: County police departments, annual reports and records; Hawaii Criminal Justice Statistical Analysis Center, records.

Table 51.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1978

County	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	Part I	Part II 1/	Part I	Part II 1/	Part I	Part II 1/
State total	63,934	84,394	21,710	55,807	34.0	66.1
Honolulu	51,892	66,748	17,929	46,705	34.6	70.0
Hawaii	4,439	4,085	1,677	2,258	37.8	55.3
Kauai	2,406	2,798	592	1,091	24.6	39.0
Maui	5,197	10,763	1,512	5,753	29.1	53.5

1/ Excludes traffic offenses.

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 52.-- ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1968 TO 1978

Year	Total Part I offenses	Murder; non-negligent manslaughter	Manslaughter (negligent)	Rape	Robbery
1968	31,044	19	11	52	167
1969	32,636	23	22	82	272
1970	36,779	25	3	85	473
1971	37,459	31	46	124	715
1972	31,594	46	31	144	424
1973	35,275	36	50	150	663
1974	43,572	62	84	190	951
1975	43,612	58	99	161	1,037
1976	45,307	40	111	150	1,084
1977	46,389	45	94	177	1,086
1978	51,892	38	-	187	1,473

Year	Aggravated assault	Burglary	Larceny		Auto theft
			Total	Over $50	
1968	130	9,776	17,077	(NA)	3,812
1969	124	9,417	18,576	(NA)	4,120
1970	219	10,252	21,481	(NA)	4,241
1971	341	9,599	22,349	9,426	4,254
1972	343	8,943	18,706	7,829	2,957
1973	287	10,838	19,763	8,440	3,488
1974	301	13,040	24,269	10,183	4,675
1975	311	13,287	24,480	10,757	4,179
1976	356	13,509	25,793	11,977	4,264
1977	335	13,134	27,732	13,977	3,786
1978	346	13,878	31,567	16,941	4,403

NA Not available.

Source: Honolulu Police Department, Statistical Report (annual), and records; Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 53.-- ORGANIZED CRIME MURDERS, BY ISLAND AND METHOD: 1962 TO 1977

Year	State total	By location of killing		By method of killing	
		Oahu	Other islands	Shot	Other methods1/
1962-1977 ...	60	52	8	48	12
1962	2	2	-	2	-
1963	-	-	-	-	-
1964	-	-	-	-	-
1965	1	1	-	1	-
1966	-	-	-	-	-
1967	2	2	-	2	-
1968	4	3	1	4	-
1969	5	5	-	1	4
1970	10	10	-	8	2
1971	1	1	-	1	-
1972	11	11	-	8	3
1973	1	1	-	1	-
1974	5	5	-	4	1
1975	7	6	1	6	1
1976	4	3	1	4	-
1977	7	2	5	6	1

1/ The other methods of organized crime killing over this period of time and the respective number of victims were: burned, 3; beaten, 2; strangled, 2; stabbed, 1; pickaxed, 1; combination of methods, 3.

Source: Office of the Lieutenant Governor, Hawaii Crime Commission, Organized Crime in Hawaii, Volume I, A Report to the Hawaii State Legislature (August 1978), pp. 23-28.

Table 54.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1978

Type of offenses	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	63,934	51,892	21,710	17,929	34.0	34.6
Murder & non-neg. manslaughter	60	38	38	22	63.3	57.9
Manslaughter (neg.) ..	2	-	3*	-	(X)	(X)
Rape	231	187	130	105	56.3	56.1
Robbery	1,556	1,473	620	597	39.8	40.5
Aggravated assault ...	572	346	356	193	62.2	55.8
Burglary	17,369	13,878	4,227	3,427	24.3	24.7
Larceny, over $200 ...	10,098	8,173	1,322	1,148	13.1	14.0
Larceny, $50-$200	11,101	8,768	1,168	899	10.5	10.3
Larceny, under $50 ...	17,828	14,626	4,925	3,970	27.6	27.1
Auto theft	5,119	4,403	892	676	17.4	15.4

* Clearance of previous year's case.

X Not applicable or meaningless.

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 55.-- PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1975 TO 1978

Year	Part I offenses cleared 1/		Persons arrested for Part I offenses			
				Juveniles under 18 years		18 years of age and over
	Number	Percent	Total	Male	Female	
1975 ...	9,235	21	7,696	3,186	1,134	3,376
1976 ...	12,747	28	8,915	3,647	1,316	3,952
1977 ...	11,460	25	8,429	3,355	1,117	3,957
1978 ...	17,929	35	7,104	2,920	1,025	4,059

1/ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

Source: Honolulu Police Department, Statistical Report (annual), and Hawaii Criminal Justice Statistical Analysis Center, Supplement to Crime in Hawaii, 1977, pp. 1 and 5, and records.

Table 56.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1978

Age and sex	Arrested for Part I offenses		Arrested for Part II offenses (except traffic)	
	State total	Oahu only	State total	Oahu only
Total	10,454	7,104	21,986	17,933
Juveniles 1/	5,251	3,045	4,658	3,929
Male	4,040	2,920	3,209	2,723
Female	1,211	1,025	1,449	1,206
Adults 2/	5,203	4,059	17,328	14,004
Male	3,882	2,906	14,877	12,048
Female	1,321	1,153	2,451	1,956

1/ Under 18 years old.
2/ 18 years old and over.

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 57.-- VICTIMS OF CRIME: 1970 TO 1977

[Response to questions, "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," asked of 2,749 persons 15 years old and over, December 3-7, 1977.]

Place of residence	Sample size	Percent distribution		
		Victims	Not victims	No reply
State total	2,749	36.0	61.2	2.8
Hawaii County	536	22.0	75.9	2.1
Maui County	671	25.8	71.1	3.1
Oahu	986	40.0	57.3	2.7
Kauai	556	23.1	71.6	5.3

Source: Public Affairs Advisory Service, Inc., A Survey of Crime and the Criminal Justice System (Hawaii Commission on Crime, January 1978), pp. 24, 35, 41, 55, 72, 121, and 122.

Table 58.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, FOR THE CITY AND COUNTY OF HONOLULU: 1975 TO 1978

[Excluding automobiles]

Year	Value of property reported stolen ($1,000)	Value of stolen property recovered ($1,000)	Percent recovered
1975	11,628.1	828.1	7.1
1976	14,438.7	1,375.4	9.5
1977	15,473.3	1,496.2	9.7
1978	19,262.0	1,676.6	8.7

Source: Statistical Report, Honolulu Police Department (annual), and Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 59.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1978

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	31,715.6	8,672.2	27.3
Oahu only	26,916.3	6,729.2	25.0
Locally stolen motor vehicles:			
State total	9,284.8	6,485.0	69.8
Oahu only	7,654.3	5,052.6	66.0
Other stolen property:			
State total	22,430.8	2,187.2	9.8
Oahu only	19,262.0	1,676.6	8.7

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 60.-- UNITED STATES DISTRICT COURT CASES: 1977 TO 1979

[Years ended June 30, 1977 and 1978 and March 31, 1979]

Subject	1977	1978	1979
Civil cases:			
Filings	462	535	557
Terminations	341	402	470
Pending, end of period	743	876	986
Criminal cases: 1/			
Filings (including transfers)	1,035	1,120	1,504
Terminations	823	1,151	1,141
Pending, end of period	313	282	623
Bankruptcy:			
Commenced, total	564	547	578
Voluntary: Business 2/	110	125	98
Nonbusiness	452	420	478
Involuntary	2	2	2
Terminated	356	600	352
Pending, end of period	594	541	741

1/ Data include drunk driving and traffic violations reported pursuant to Speedy Trial Act of 1974.

2/ Farmer, professional, merchant, manufacturer, and others in business. Excludes employee and other nonbusiness bankruptcies.

Source: Administrative Office of the United States Courts, Federal Judicial Workload Statistics, Twelve-Month Period Ending March 31, 1979, and records.

Table 61.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1978

[Year ended June 30]

Court and type of action	Number
Supreme Court, total	907
Primary cases	374
Appeals	358
Original proceedings	16
Supplemental proceedings	533
Circuit Court Proper, total	10,074
Primary proceedings	9,110
Civil actions	4,090
Probate proceedings	1,551
Guardianship proceedings	361
Miscellaneous proceedings	1,047
Criminal actions	2,061
Part I offenses	841
Part II offenses	1,220
Supplemental proceedings	964
Family Courts, total	22,529
Primary proceedings, referrals	18,966
Marital actions, proceedings	8,218
Adoption proceedings	714
Paternity proceedings	657
Miscellaneous proceedings	1,580
Criminal actions	60
Adults' referrals	803
Children and minors' referrals	6,934
Supplemental proceedings	3,563
District Court, total	717,283
Civil	10,940
Regular	9,627
Small claims	1,313
Traffic	665,427
Moving - arrest and citation	126,585
Non-moving	66,765
Parking	472,077
Other violations	20,856
Criminal actions	20,060
Part I offenses	3,320
Part II offenses	16,740

Source follows next table.

Table 62.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1978

[Year ended June 30]

Court and type of termination	Number
Supreme Court, total	729
Opinion filed	111
Dismissal motion granted	10
Withdrawn or discountinued	61
Other disposition	547
Circuit Court Proper, total	9,151
No service	394
No answer	459
No statement of readiness	122
Dismissal: Notice of	555
Stip. for	1,125
By judge	1,044
Nonjury: Trial	215
Trial not completed	14
Jury: Verdict	286
Trial not completed	32
No trial held	839
Hearings: Contested	237
Uncontested	1,787
Others	2,042
Family Courts, total	20,194
No trial held	564
Hearings: Contested	2,684
Uncontested	8,175
Counseling service	3,837
Others	4,934
District Court, total	689,699
Felonies	783
Stricken or discharged	145
By commitment to Grand Jury	456
By commitment to Circuit Court	182
Misdemeanors	19,360
By discharge or dismissal	5,043
By nolle prosequi	1,327
Stricken	1,078
By bail forfeiture	1,723
By commitment to Circuit Court	500
By conviction	9,689
Civil cases	10,200
By discontinuance or dismissal	2,942
By default or confession	6,382
By trial	783
By commitment to Circuit Court	93
Traffic and other violations	659,356
By discharge or dismissal	19,229
By nolle prosequi	2,325
Stricken	88,234
By bail forfeiture	475,974
By commitment to Circuit Court	14
By conviction	73,580

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1977 to June 30, 1978*, pp. 62, 66, 71, and 76.

Table 63.— INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1968 TO 1978

[For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977.]

Year	All categories	Adult facilities			Juvenile facilities	
		Felons	Misdemeanants	Not sentenced	Boys	Girls
1968 ...	(NA)	383	(NA)	(NA)	60	25
1969 ...	(NA)	320	(NA)	(NA)	51	21
1970 ...	(NA)	281	(NA)	(NA)	56	11
1971 ...	(NA)	257	(NA)	(NA)	61	12
1972 ...	(NA)	256	(NA)	(NA)	49	9
1973 ...	(NA)	300	(NA)	(NA)	63	19
1974 ...	(NA)	302	(NA)	(NA)	62	17
1975 ...	(NA)	312	(NA)	(NA)	60	16
1976 ...	531	334	40	110	46	11
1977 ...	544	330	28	117	56	13
1978 ...	594	365	36	129	54	10

NA Not available.

Source: Hawaii State Intake Service Centers, Office of Correctional Information and Statistics, records.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to area, climatologic, topographic, hydrologic, noise and other geographic and environmental measurements of Hawaii.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: seventeen major Oahu beaches surveyed in 1978 were found to have coliform levels per 100 ml. ranging from 2.0 to 84.9, and all were well within EPA standards. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 92°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae, South Kohala, to 486 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1975 averaged 2.5 billion gallons per day, compared with 2.7 billion in 1970 and 2.0 billion in 1965. Among thirty neighborhoods on Oahu, median noise levels ranged from 44.7 decibels (in Pearl City) to 61.5 decibels (in Waikiki).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Hawai'i, the Natural Environment, published by the Department of Planning and Economic Development in 1974. National data are reported in Statistical Abstract of the United States: 1978, Section 7.

Table 64.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu	
	Statute miles	Kilometers
Hawaiian Islands:		
Cape Kumukahi, Hawaii	236	380
Hilo, Hawaii	214	344
Ka Lae (South Cape), Hawaii	221	356
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Trust Territory of the Pacific Islands:		
Majuro, Marshall Islands	2,271	3,654
Kwajalein, Marshall Islands	2,443	3,931
Kolonia, Ponape, E.C.I.	3,087	4,967
Saipan, Mariana Islands	3,704	5,960
Koror, Palau, W.C.I.	4,593	7,390
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Avarua, Rarotonga	2,950	4,750
Funafuti, Tuvalu	2,550	4,106
Hong Kong	5,541	8,915
Johnston Island	820	1,319
Kingman Reef	1,073	1,726
Manila, Philippines	5,293	8,516
Nuku'alofa, Tongatapu	3,165	5,096
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193
Palmyra Island	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083

Table 64.— GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES -- Con.

Place	Distance from Honolulu	
	Statute miles	Kilometers
Other Pacific locations, con.:		
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South America:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Lima, Peru	5,950	9,580
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Victoria, B.C.	2,668	4,293
Tijuana, Mexico	2,616	4,209
Washington, D. C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
South Pole	7,660	12,333

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source follows next table.

Table 65.— GREAT CIRCLE DISTANCES FROM HILO AND KURE ATOLL

Places	Great circle distance	
	Statute miles	Kilo-meters
Hilo to —		
Honolulu, Oahu	214	344
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to —		
Cape Kumukahi, Puna, Hawaii 1/	1,523	2,451
Honolulu, Oahu	1,367	2,200
Log Point, Elliot Key, Florida 2/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

2/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 66.-- WIDTHS AND DEPTHS OF CHANNELS

Channel	Location	Width		Maximum depth	
		Statute miles	Kilometers	Feet	Meters
Alenuihaha	Upolu Pt., Hawaii-Pulule Pt., Maui ...	29.5	47.5	6,120	1,870
Alalakeiki	Ule Pt., Kahoolawe-Nukele Pt., Maui ..	6.8	10.9	470	140
Kealaikahiki ..	Kamaiki Pt., Lanai-Ma Kaala, Kahoolawe	17.6	28.3	...	...
Auau	Kikoa Pt., Lanai-Lahaina, Maui	9.1	14.6	108	33
Kalohi	Wahi Pt., Lanai-Kamalo, Molokai	9.3	15.0	260	80
Pailolo	Lipoa Pt., Maui-Pohakuloa, Molokai ...	8.8	14.2	800	240
Kaiwi	Ilio Pt., Molokai-Makapuu Pt., Oahu ..	26.0	41.8	2,000	600
Kauai	Kaena Pt., Oahu-Kamilo Pt., Kauai	72.4	116.5	10,000	3,000
Kaulakahi	Kaunuopou Pt., Niihau-Mana Pt., Kauai	17.0	27.4	2,500	800

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 20.

Table 67.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total 4/	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands:				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Molokini	...	...	...	...
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Lehua	...	...	...	...
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Gardner Pinnacles	...	...	...	...
Maro Reef	...	...	...	...
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Pearl and Hermes Atoll	...	...	...	...
Kure Atoll	5	8	5	8

Footnotes and source on next page.

Table 67.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS -- Cont.

1/ Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. Coastline of bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point. Figures for the islands of Maui County are not consistent with the published county total.

2/ Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Among the States and Territories, Hawaii ranks fourth in general coastline and seventeenth in tidal shoreline.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Coast and Geodetic Survey, Coastline of the United States (April 1, 1961) and letter dated October 24, 1961.

Table 68.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago.]

Category	Square nautical miles	Square statute miles	Square kilo-meters
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,157,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978.

Table 69.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or island	Square miles			Square kilometers 1/		Acres 1/	
	Total area	Land area 2/	Inland water 3/	Total area	Land area 2/	Total area	Land area 2/
State total	6,450.4	6,425.4	25.0	16,706.5	16,641.7	4,128,256	4,112,256
Counties:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	1,161.1	1,160.3	0.8	3,007.2	3,005.2	743,104	742,592
Kalawao	13.3	13.3	-	34.4	34.4	8,512	8,512
Honolulu	610.9	595.7	15.2	1,582.2	1,542.9	390,976	381,248
Kauai	627.1	619.1	8.0	1,624.2	1,603.5	401,344	396,224
Islands:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	728.8	728.2	0.6	1,887.6	1,886.0	466,432	466,048
Kahoolawe	45.0	45.0	-	116.5	116.5	28,800	28,800
Molokini 4/	0.0	0.0	-	0.1	0.1	19	19
Lanai	139.5	139.5	-	361.3	361.3	89,280	89,280
Molokai	261.1	260.9	0.2	676.2	675.7	167,104	166,976
Oahu	607.7	592.7	15.0	1,573.9	1,535.1	388,928	379,328
Kauai	553.3	548.7	4.6	1,433.0	1,421.1	354,112	351,168
Niihau	73.0	69.6	3.4	189.1	180.3	46,720	44,544
Lehua	0.4	0.4	-	1.0	1.0	243	243
Kaula	0.4	0.4	-	1.1	1.1	280	280
Northwestern Hawaiian Islands 5/ ..	3.2	3.0	0.2	8.2	7.7	2,036	1,895

Footnotes and source on next page.

Table 69.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS -- Cont.

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles (except for Molokini, Lehua, Kaula, and the Northwestern Hawaiian Islands, for which square miles calculated to three decimal places were used); these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 sq. mi. = 640 A. = 2.58999 sq. km.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than one nautical mile of water; and islands having less than 40 acres of area.

4/ More exactly, the area of Molokini is 18.6 acres (equivalent to 0.03 square miles or 0.075 square kilometers).

5/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Islands included in the State and their land areas in square miles are: Nihoa, 0.298; Necker Island, 0.091; French Frigate Shoals, 0.088; Gardner Pinnacles, 0.004; Maro Reef, awash; Laysan Island, 1.312 (plus 0.220 of inland water, for a total area of 1.533); Lisianski Island, 0.675; Pearl and Hermes Atoll, 0.122; and Kure Atoll, 0.371.

Source: Data from U.S. Bureau of the Census, Geography Division, cited in the Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), pp. 9 and 10.

Table 70.-- MAJOR SUMMITS

[Elevation of the highest point on each island and other important peaks.]

Island and mountain	Elevation	
	Feet	Meters
Hawaii:		
Mauna Kea	13,796	4,205
Mauna Loa	13,677	4,169
Hualalai	8,271	2,521
Kohala	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Lua Makika	1,477	450
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,970	1,515
Puu Nana	1,381	421
Oahu:		
Kaala	4,020	1,225
Konahuanui 1/	3,150	960
Oahu, continued:		
Tantalus	2,013	614
Olomana	1,643	501
Diamond Head	760	232
Punchbowl	500	152
Koko Head	642	196
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Niihau:		
Paniau	1,281	390
Kaula	550	168
Nihoa	910	277
Necker Island	277	84
La Perouse Pinnacle	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	-	-
Midway Islands 2/	12±	4±
Kure Atoll	20	6
Kingman Reef 2/	3	1
Palmyra Islands 2/	6	2

1/ Two distinct peaks. The lower has an elevation of 3,105 feet.

2/ Not part of the State of Hawaii.

Source: U.S. Geological Survey data cited in the Hawaii State Department of Planning and Economic Development, Elevations of Major Mountains in Hawaii (Statistical Report 52, November 7, 1967), as revised by U.S. National Cartographic Information Center, October 11, 1973.

Table 71.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	184.0
Maui	Iao Stream	54.1
Molokai	Pulena Stream	22.1
Oahu	Waikele Stream	25.7
Kauai	Hanalei River	151.0

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Honokohau Stream, Maui (9.4 miles long); Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), and Waiakakalaua Stream (11.8), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Lengths from Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 15; discharges from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied May 27, 1977.

Table 72.-- LARGEST LAKES, BY ISLANDS

Island	Name of largest lake 1/	Category	Maximum depth (feet)	Altitude (feet)	Area (acres)	Shoreline (miles)
Hawaii	Waiakea Pond	Natural	(NA)	Sea level	27	2
	Lake Waiau 2/	Natural	10	13,020	1.5	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea level	41	2
Kahcolawe ..	None					
Lanai	None					
Molokai	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	333	11
Kauai	Waita Reservoir	Man-made	23	233	422	3
Niihau	Halulu Lake	Natural	(NA)	Sea level	182	3

NA Not available.

1/ Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake is Halalii Lake, Niihau (840.7 acres).

2/ Highest lake in the State and third highest in the United States.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 73.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 74 .-- VOLCANIC ERUPTIONS: 1969 TO 1979

Volcano and date of outbreak		Repose period since previous eruption (months)	Duration (days)	Location	Altitude (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:							
1975:	July 5	300	<1	Summit	13,000-12,100	5.2	39,200
Kilauea:							
1969:	Feb. 22	4.0	6	E. rift	3,100-2,900	2.3	22,000
	May 24	2.0	867	E. rift	3,150	19.3	242,000
1971:	Aug. 14	-	<1	Caldera	3,660-3,600	0.8	12,400
	Sept. 24	-	5	Caldera, SW rift	3,740-2,730	1.5	10,500
1972:	Feb. 4	4.3	455	E. rift	3,150	13.5	163,800
1973:	May 5	-	<1	E. rift	3,340-3,250	0.1	1,600
	May 7 1/	-	187	...	...	0.2	3,200
	Nov. 10	-	30	E. rift	3,250-2,900	0.4	3,700
	Dec. 12	1.1	203	E. rift	3,150	3.1	39,300
1974:	July 19	-	3	Caldera, E. rift	3,600-3,520	1.2	9,000
	Sept. 19	2.0	<1	Caldera	3,680	0.4	14,000
	Dec. 31	3.4	<1	Caldera	3,600	2.9	19,600
1975:	Nov. 29	11.0	<1	Caldera	3,600	0.05	330
1977:	Sept. 13	21.5	18	E. rift	1,600-2,080	3.0	45,000

1/ Listed by the Hawaiian Volcano Observatory staff but not by Macdonald and Hubbard (see source).

Source: Gordon A. Macdonald and Douglas H. Hubbard, Volcanoes of the National Parks in Hawaii, 7th edition (Hawaii Natural History Association, December 1974), pp. 14 and 29, as corrected by Dr. Macdonald, May 5, 1976, and updated by the staff of the Hawaiian Volcano Observatory, April 28, 1976, May 21, 1976, March 25, 1977, February 8, 1978, and March 9, 1979. Correct to March 9, 1979.

Table 75.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1969 TO 1978

Date	Location	Magnitude (Richter Scale)
1969: May 9	Hawaii	5
1971: Aug. 1	S.E. of Hawaii	4.5-5
1972: Dec. 23	W. of Kona	5
1973: Apr. 26	Hawaii	6.2
Oct. 9	Hawaii	4.8-5
1974: Nov. 30	Hawaii	5.5-6
1975: Jan. 1, 2:41 a.m.	Near Pahala, Hawaii	5.1
Jan. 1, 3:20 a.m.	Mauna Loa, Hawaii	5.1
Jan. 2	Near Pahala, Hawaii	5.6
Jan. 5	Mauna Loa, Hawaii	5.1
Nov. 29, 3:35 a.m.	Puna, Hawaii	5.7
Nov. 29, 4:47 a.m.	Puna, Hawaii	7.2
1977: Jan. 22	100 miles S. of Kauai	5.0

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, A Study of Past Earthquakes, Isoseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii (University of Hawaii, Center for Engineering Research, June 15, 1972), pp. 16-19; Hawaii Institute of Geophysics, records. Complete to December 31, 1978.

Table 76.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1978

[Correct to December 31, 1978]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D. C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977).

Table 77.— MAJOR DAMS: 1977

Name	Location	Height (ft.)	Length (ft.)	Volume (cubic yards)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu.....	98	460	167,000	7,776
Waita	Koloa, Kauai......	27	3,050	(NA)	7,350
Kualapuu	Kualapuu, Molokai.	58	3,900	1,267,000	4,290
Alexander Dam..	Kalaheo, Kauai....	104	700	(NA)	2,490

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, information supplied March 11, 1977.

Table 78.-- WATER USE: 1965 TO 1975

[In millions of gallons per day, unless otherwise specified.]

Subject	1965	1970	1975
Water withdrawn 1/	2,000	2,700	2,500
Ground water	820	920	870
Fresh	780	910	850
Saline	37	13	15
Surface water	1,200	1,700	1,600
Fresh	670	850	650
Saline	500	860	980
Reclaimed sewage	-	66	-
Withdrawn for irrigation	1,160	1,280	950
Conveyance losses	200	220	450
Used for hydroelectric power	360	330	200
Fresh water consumed	580	810	560
Per capita use (gallons per day) ...	2,800	3,500	1,900

1/ Excludes water used for hydroelectric power but includes irrigation conveyance losses.

Source: U.S. Geological Survey, Estimated Use of Water in the United States for 1965 (Circular 556, 1968), 1970 (Circular 676, 1972), and 1975 (Circular 765, 1977).

Table 79.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS:
1977 AND 1978

Geographic area	Number of services, June 30		Consumption (millions of gallons) 1/	
	1977	1978	1977	1978
State total	162,877	166,821	57,136	55,100
City and Co. of Honolulu	118,243	120,172	45,080	42,466
Honolulu 2/	56,946	57,091	25,761	24,191
Rest of Oahu	61,297	63,081	19,319	18,275
Hawaii County	19,541	20,470	4,123	4,229
Kauai County	8,838	9,289	2,186	2,454
Maui County	16,255	16,890	5,747	5,951
Maui	15,200	15,811	5,528	5,701
Molokai	1,055	1,079	220	250

1/ Years ended June 30.

2/ Maunalua to Moanalua.

Source: City and County of Honolulu, Board of Water Supply, Annual Report and Statistical Summary for 1976-1977 and 1977-1978; County of Hawaii, Department of Water Supply, records; County of Kauai, Office of the Mayor, Annual Report: Departments and Agencies for 1977 and 1978 and records; County of Maui, Department of Water Supply, Annual Report for the Fiscal Year Ended June 30, 1977 and records.

Table 80.-- WATER QUALITY AT OAHU BEACHES: 1975 TO 1978

Beach	Number of samples				Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
	1975	1976	1977	1978	1975	1976	1977	1978
Ala Moana Park (Ewa)	40	34	33	42	4.2	4.7	3.8	5.0
Ala Moana Park (Center)	30	14	9	12	2.6	6.0	2.0	3.2
Ala Moana Park (Diamond Head) ...	36	19	9	12	5.3	5.4	2.0	3.9
Bellows Air Force Beach	9	-	-	-	9.7	(NA)	(NA)	(NA)
Elks Club Beach	39	13	8	12	9.4	17.0	4.2	5.0
Ewa Beach	11	10	11	10	3.1	6.2	2.5	6.2
Fort DeRussy Beach	30	12	9	12	12.2	24.3	3.1	4.2
Gray's Beach	43	34	34	41	8.7	6.2	4.7	6.6
Haleiwa Park Beach	8	3	5	-	9.6	9.9	2.9	(NA)
Hanauma Bay	10	8	10	11	3.2	2.7	4.0	2.4
Hauula Park Beach	10	8	4	-	2.4	7.9	6.3	(NA)
Kaaawa Park Beach	10	8	4	-	5.2	10.2	21.4	(NA)
Kahala Beach	9	-	-	-	12.4	(NA)	(NA)	(NA)
Kahala Hilton Beach	8	-	-	-	3.5	(NA)	(NA)	(NA)
Kahana Park Beach	10	8	4	11	44.9	18.7	81.4	49.5
Kahanamoku Beach	34	14	13	12	6.5	4.6	[illegible]	4.2
Kahanamoku Lagoon (Ewa)	24	-	-	-	288.7	(NA)	[illegible]	(NA)
Kahanamoku Lagoon (Diamond Head)	36	28	32	42	14.7	12.5	8.7	84.9
Kailua Park Beach	8	8	10	11	12.9	6.6	9.1	6.7
Kalama Beach	8	8	4	-	22.2	6.6	3.6	(NA)
Kawela Bay	6	-	-	-	8.9	(NA)	(NA)	(NA)
Kokokahi Pier	11	8	9	11	39.5	33.1	58.0	30.3
Kuhio Beach	41	14	11	9	19.4	25.0	19.3	10.6
Lanikai Beach	6	-	-	-	19.1	(NA)	(NA)	(NA)
Makaha Beach	11	11	6	-	2.6	2.2	3.2	(NA)
Nanakuli Park Beach	11	12	6	-	2.0	3.4	2.5	(NA)
Public Bath Beach	43	32	33	40	3.7	4.5	2.4	3.6
Punaluu Park Beach	10	8	4	-	23.4	26.2	14.7	(NA)
Sandy Beach (East)	11	8	10	-	2.4	7.5	2.6	(NA)
Sandy Beach (West)	9	-	-	1	2.0	(NA)	(NA)	2.0
Tavern Beach	40	13	9	15	4.9	3.5	4.2	10.1
Waianae Park Beach	10	12	12	-	3.2	3.1	4.1	(NA)
Waikiki Natatorium	35	-	-	-	3.4	(NA)	(NA)	(NA)
Waimanalo Park Beach	10	9	10	-	4.2	9.4	8.5	(NA)
Waimanalo Surfer's Beach	8	-	-	-	9.7	(NA)	(NA)	(NA)

NA Not available.

1/ EPA criterion for bathing waters: Not to exceed a geometric mean of 200 fecal coliform bacteria per 100 ml. of water.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 81.-- SUSPENDED PARTICULATE MATTER FOR HONOLULU: 1970 TO 1978

[Sampling conducted from roof of Health Department Building. Annual mean levels over 80 micrograms per cubic meter may affect human health.]

Year	Mean micrograms per cubic meter
1970	37
1971	45
1972	41
1973	34
1974	35
1975	40
1976	34
1977	31
1978	29

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 82.-- AIR POLLUTANT EMISSIONS, BY SOURCE AND COUNTIES: 1976

[In tons per year; as of July.]

Counties and sources	Sulfur oxides	Particulates	Carbon monoxide	Hydrocarbons	Nitrogen oxides
Total	66,702	80,166	329,662	94,607	61,524
COUNTIES					
City and County of Honolulu	59,090	45,841	212,255	58,998	44,510
County of Hawaii	3,355	8,925	49,335	14,823	6,860
County of Kauai	1,194	7,291	32,088	10,207	3,710
County of Maui	3,063	18,109	35,984	10,579	6,444
SOURCES					
Transportation	2,761	4,004	239,843	44,471	26,612
Motor vehicles	780	2,402	219,038	35,128	20,644
Aircraft	310	1,122	6,252	3,904	1,584
Vessels	1,436	207	3,530	1,293	1,342
Off-highway fuel usage	235	272	11,023	1,203	3,042
Gasoline handling and evaporation	(N)	(N)	(N)	2,943	(N)
Fuel combustion in stationary sources	58,117	12,872	4,628	5,991	30,906
Residential, commercial, institutional	1,044	228	99	73	716
Industrial and agricultural	14,403	9,936	3,725	5,484	6,545
Steam-electric utilities	42,670	2,708	804	434	23,645
Solid waste disposal	299	1,343	6,196	2,998	470
Open burning	41	698	3,704	1,309	262
Incineration	258	645	2,492	1,689	208
Industrial process losses	5,525	39,754	668	15,038	925
Agricultural field burning	(N)	22,193	78,327	26,109	2,611

N Negligible

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 83.-- AEROMETRIC SURVEY DATA FOR SPECIFIED LOCATIONS: 1978

Location	Particulate matter (micrograms per cubic meter)			Sulfur dioxide (micrograms per cubic meter)		
	Minimum	Maximum	Annual average	Minimum	Maximum	Annual average
Oahu:						
Ala Moana	21	79	38	<5	5	<5
Dept. of Health Bldg..	14	53	29	<5	44	18
Kalihi Kai	27	80	46	<5	7	<5
Pearl City	20	81	37	<5	74	15
Barbers Point	22	127	48	<5	40	<5
Waimanalo	15	61	29	...	...	...
Maui:						
Kahului	44	154	74	<5	273	63
Kihei	16	160	54	...	...	...
Hawaii:						
Hilo	13	169	34	<5	45	<5
Kauai:						
Lihue	22	124	37	<5	<5	<5

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 84.-- NOISE LEVELS IN VARIOUS NEIGHBORHOODS ON OAHU: 1974

Neighborhood	Noise level (in decibels) exceeded --		
	10 percent of time	50 percent of time	90 percent of time
HONOLULU			
Aina Haina	53.5	45.0	40.0
Aina Koa	61.0	48.4	42.3
Downtown	67.0	58.0	50.5
Hawaii Kai	57.0	46.5	40.5
Kahala	56.7	45.5	42.0
Kaimuki	59.0	50.7	44.0
Kalihi	58.0	50.2	43.7
Kapahulu	55.0	49.7	44.0
Kapalama-Liliha	63.8	56.0	46.0
Kuliouou	53.5	46.3	40.5
Makiki	64.5	55.0	49.5
Manoa	58.7	45.3	40.0
Moiliili	62.0	55.0	50.0
Niu Valley	57.0	46.7	39.5
Nuuanu	63.0	50.1	45.4
Palolo	58.5	49.4	44.0
Pawaa	65.5	60.0	54.0
Waikiki	69.0	61.5	54.0
Waialae-Iki	60.0	50.5	41.5
Ward to Punchbowl	67.5	60.2	57.0
REST OF OAHU			
Aiea-Waimalu	57.5	47.3	40.5
Halawa Heights, Foster Village, Salt Lake, Aliamanu	57.5	54.5	48.7
Kailua	55.5	45.0	37.5
Kaneohe	54.0	45.5	40.5
Mililani Town	57.5	50.0	45.0
Pearl City	53.2	44.7	38.7
Wahiawa	62.5	50.5	46.0
Waianae	56.5	50.0	45.0
Waimanalo	54.5	50.0	44.5
Waipahu	59.0	51.0	45.5

Source: Survey conducted by Dr. Iwao Miyake for the Hawaii State Department of Health, and summarized by the Noise and Radiation Branch, Department of Health.

Table 85.-- CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	26	71.0	75.9	53	94	133.57	39
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81	...
Kona (Kailua)	30	72.1	77.3	54	93	25.22	...
Puako 1/	10	73.1	79.8	52	98	9.47	...
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	...
Mauna Kea summit 2/	13,796	31.1	42.5	11	66	8.08	...
Maui:							
Hana	120	71.3	76.8	50	90	70.65	...
Haleakala summit	9,960	42.6	50.0	14	73	50.69	...
Kihei 3/	90	70.9	78.4	49	98	13.79	...
Kahului Airport	48	71.6	78.8	48	96	18.43	70
Lahaina	45	71.5	78.0	52	93	15.51	...
Molokai:							
Kaunakakai	12	...	...	...	...	14.08	...
Molokai Airport	450	70.2	77.6	48	90	29.21	...
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	...
Oahu:							
Honolulu International Airport	7	72.3	80.7	53	92	22.90	67
Honolulu Federal Bldg. 4/	12	72.0	78.6	57	88	25.35	65
Waikiki 5/	10	71.9	80.6	51	93	27.32	...
Manoa (HSPA)	500	69.4	75.2	...	...	158.41	...
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	...
Kahuku	25	71.6	78.8	49	95	41.10	...
Wheeler AFB	826	68.2	75.5	52	89	39.85	...
Waianae	20	72.1	79.7	45	96	20.31	...

Continued on next page.

Table 85.-- CLIMATIC DATA FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	...
Kealia	9	70.2	78.0	44	93	43.28	...
Lihue Airport	103	71.2	79.1	50	90	44.18	56
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	...
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25	...
Waialeale	5,075	...	...	...	...	486.	...
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	...

1/ Temperature data are for Mohukona.

2/ Based on incomplete and non-continuous data for 1966-1972.

3/ Temperature data refer to Puunene Airport.

4/ Temperature sensors are 87 feet above the ground.

5/ Located at Honolulu Zoo. Available only from 1965.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977.

Table 86.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F.)			Extreme temperature (°F.) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. ...	79.3	65.3	72.3	87	53	4.40	14.74	0.34	6.72
Feb. ...	79.2	65.3	72.3	87	53	2.46	13.68	0.32	6.88
Mar. ...	79.7	66.3	73.0	88	55	3.18	20.79	0.01	17.07
Apr. ...	81.4	68.1	74.8	89	59	1.36	8.92	0.01	4.21
May	83.6	70.2	76.9	89	63	0.96	7.23	0.05	3.44
June ...	85.6	72.2	78.9	90	65	0.32	2.46	T	2.28
July ...	86.8	73.4	80.1	90	67	0.60	2.01	0.03	1.03
Aug. ...	87.4	74.0	80.7	92	67	0.76	3.08	T	2.35
Sept. ..	87.4	73.4	80.4	92	66	0.67	2.74	0.05	1.40
Oct. ...	85.8	72.0	78.9	91	64	1.51	11.15	0.11	7.57
Nov. ...	83.2	69.8	76.5	89	58	2.99	14.72	0.03	9.15
Dec. ...	80.3	67.1	73.7	89	54	3.69	12.09	0.06	8.14
Ann. ...	83.3	69.8	76.6	92	53	22.90	20.79	T	17.07

Continued on next page.

Table 86.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
Month	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	80	62	9.9	67	63	5.5	9	9	10
Feb. ...	76	59	10.7	63	65	5.7	8	8	9
Mar. ...	72	58	11.6	59	68	6.0	7	10	9
Apr. ...	69	57	12.2	40	66	6.3	6	11	9
May	67	55	12.2	35	69	6.1	7	10	7
June ...	66	54	12.9	39	70	5.7	6	7	6
July ...	66	51	13.7	34	73	5.3	8	5	8
Aug. ...	67	53	13.5	52	75	5.3	8	6	7
Sept. ..	66	52	11.7	36	75	5.2	8	6	7
Oct. ...	68	55	10.9	40	68	5.6	8	8	9
Nov. ...	74	59	11.0	65	60	5.7	7	9	10
Dec. ...	77	60	11.1	59	59	5.6	8	10	10
Ann. ...	71	56	11.8	67	68	5.7	90	99	101

T Trace, an amount too small to measure.

1/ For periods October 1962 through December 1964 and September 1971 through December 1978. At other times, temperatures as high as 93° and as low as 52° have been recorded at the Airport.

2/ Data for 1963, 1964, and 1972-1978.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1978.

Table 87.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.3
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.1
Highest monthly average maximum temp. (°F.)	August	Waiawa, Kauai	89.7
Highest monthly average daily temp. (°F.)	August	Puako, Hawaii	80.7
Lowest average annual rainfall (inches)		N. of Kawaihae	5.7
Highest average annual rainfall (inches)		Waialeale	486.
Single events:			
Lowest temperature of record (°F.)	Feb. 11, 1973	Mauna Kea summit	11.
Highest temperature of record (°F.)	April 27, 1931	Pahala, Hawaii	100.
Lowest annual rainfall of record (inches)	1953	Kawaihae, Hawaii	0.2
Highest annual rainfall of record (inches)	1947-1948	Waialeale	624.
Highest wind speed of record (m.p.h.)	Jan. 17-18, 1959	Mauna Loa Obser.	105+

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973.

Table 88.-- RAINFALL, FOR SPECIFIED LOCATIONS: ANNUALLY, 1968 TO 1978

[In inches]

Year	Hawaii		Maui		Oahu: Honolulu CBD 1/	Kauai	
	Hilo 2/	Kona 3/	Kahului 2/	Lahaina		Lihue 2/	Koloa
1968 ..	134.14	48.86	34.73	25.87	36.24	68.89	84.00
1969 ..	173.23	32.89	25.21	10.09	26.71	34.17	72.42
1970 ..	153.98	20.78	18.61	11.95	18.35	39.18	64.45
1971 ..	140.69	37.61	20.13	15.93	28.61	49.62	75.33
1972 ..	98.85	33.22	15.71	20.21	26.72	43.54	66.72
1973 ..	107.97	14.85	10.27	10.13	18.66	35.27	66.78
1974 ..	112.92	40.49	18.68	13.01	28.24	45.60	86.35
1975 ..	99.93	25.97	13.74	12.19	24.63	35.52	49.91
1976 ..	114.67	25.51	12.83	8.86	...	32.83	62.60
1977 ..	90.38	...	11.50	8.28	...	40.34	52.51
1978 ..	119.09	26.29	19.15	11.97	25.63	39.11	70.64

1/ Old Federal Building (South King St. and Richards St.). Observations suspended November 26, 1976-March 31, 1977.

2/ Airport data.

3/ Holualoa Beach. Data for 1977 are incomplete.

Source: U.S. Department of Commerce, National Climatic Center, *Local Climatological Data, Annual Summary With Comparative Data, 1978* for Hilo, Kahului, and Lihue; U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 89.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1968 TO 1978

Year	Average temperature (degrees F.)			Extreme temp. (°F.)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1968 ...	77.9	73.0	82.9	59	92	37.26
1969 ...	77.4	69.1	83.2	52	92	22.50
1970 ...	78.2	73.3	83.8	58	92	15.49
1971 ...	76.1	71.7	79.5	56	89	26.64
1972 ...	76.2	70.4	81.1	53	90	26.94
1973 ...	77.2	72.6	81.2	55	91	14.24
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05

Year	Relative humidity (%)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile		
1968 ...	74	59	10.4	43	63	114
1969 ...	73	57	12.8	40	68	96
1970 ...	69	54	13.2	40	72	120
1971 ...	72	57	13.3	34	70	110
1972 ...	72	57	13.2	33	65	93
1973 ...	70	54	12.7	33	63	110
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii (annual).

Table 90.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

Month	Morning (°F.)	Afternoon (°F.)
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1978.

Table 91.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 92.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1977 AND 1978

Location	June 30, 1977	June 30, 1978
Along City and County streets and highways 1/	97,865	101,021
In City and County parks	93,800	94,800

1/ Excludes Federal, State, and private thoroughfares. The 1978 figure is provisional.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 93.-- ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1977

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct 1/	1,113	50.6
Endangered	646	29.4
Threatened	197	8.9
Extinct	270	12.3
Not endangered, threatened, or extinct	1,087	49.4

1/ For the other 49 States, 2,140 (or 10.7 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

Source: Edward S. Ayensu and Robert A. DeFilipps, Endangered and Threatened Plants of the United States (Smithsonian Institution and the World Wildlife Fund, Inc., 1978), p. xiii.

Table 94.— HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1977 AND 1978

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.]

Species 1/	1977	1978
All species:		
Species	52	55
Individual birds	15,542	16,204
Endemic species:		
Hawaiian Stilt	106	116
'Apapane	145	114
Oahu 'Amakihi	128	74
Indigenous species:		
Red-footed Booby	1,647	1,669
Great Frigatebird	571	585
Introduced species:		
Common Myna	2,173	2,616
Barred Dove	2,201	2,389
Cattle Egret	1,316	1,445
House Sparrow	1,112	1,216
Spotted Dove	780	1,044
Japanese White-eye	953	723
Spotted Munia (Ricebird)	747	702
Migratory species:		
Golden Plover	993	1,422
Ruddy Turnstone	134	223

1/ Separate data shown for endemic birds numbering more than 70 individuals in 1978, indigenous birds more than 100, introduced birds more than 600 and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that reported in Andrew J. Berger, Hawaiian Birdlife (1972).

Source: Hawaii Audubon Society, The 'Elepaio for March 1979.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, military land in section 10, farms in section 19, and forests in section 20.

Out of the 4,128,000 acres in the State, almost 2,200,000 are in unused open space. Other major categories include agriculture, with 1,356,000 acres, services (including military installations), with 125,000, and recreation, with 273,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 16,500 acres in 1964 to 26,300 in 1975; during the same eleven-year span, agricultural land declines from 94,500 to 76,700 acres. For the State as a whole, the Land Use Commission has zoned 152,000 acres as "urban," 1,976,000 as "conservation," 1,974,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 7.3 percent of all land, the State and counties own 34.7 percent, and private owners (chiefly large estates) have 58.0 percent. Total Federal holdings come to 407,900 acres, exclusive of leased land (47,300 acres); most of the Federal land is in park and military use. The State Department of Hawaiian Home Lands holds about 190,000 acres, divided among 3,052 lessees. Total land parcels in the State number 352,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with Federal totals ranging from 297,000 acres to 408,000. Recent statistics on military land use are likewise confusing, going as high as 175,000 acres and as low as 56,000.

Reports of the U.S. General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, Department of Taxation, Department of Transportation, and Land Use Commission, and county planning departments provided the data for this section. Greater detail appears in DPED Statistical Report 98, Land Use and Ownership Trends in Hawaii, issued December 28, 1973. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 8 and 24 of the Statistical Abstract of the United States: 1978.

Table 95.-- LAND USE, BY COUNTY AND ISLAND: 1972-1976

[In acres]

Land use	State total	Hawaii County (Dec. 1976)	Maui County (Spring 1972)			City and County of Honolulu (Dec. 1976)	Kauai County (May 1972)	
			Maui and Kahoolawe	Lanai	Molokai		Kauai	Niihau
All uses 1/	4,046,902	2,520,906	490,234	89,071	168,256	373,369	357,978	47,088
Residential	65,494	11,975	17,292	256	2,963	27,031	5,968	9
Manufacturing	3,769	619	774	-	754	1,442	177	3
Mfg. services 2/	11,076	1,586	657	54	54	2,838	5,880	7
Commercial 3/	2,299	435	233	13	38	1,467	113	-
Services 4/	125,023	37,823	30,986	80	810	52,603	2,336	385
Social and cultural 5/ .	7,734	1,844	1,302	15	93	4,114	361	5
Recreation 6/	273,311	243,324	18,778	89	34	5,862	5,224	-
Agriculture	1,356,195	819,249	197,900	15,020	37,199	75,796	167,650	43,381
Transportation 7/	5,343	1,417	776	165	24	1,688	1,273	-
Unused open spaces 8/ ..	2,196,659	1,402,635	221,534	73,380	126,289	200,527	168,996	3,298

1/ Excludes public streets and highways.

2/ Includes warehousing, construction services, and public utilities.

3/ Retail and wholesale trade.

4/ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

5/ Educational, cultural, and religious.

6/ Excludes commercial amusement and recreation services.

7/ Includes airports, docks, and land transportation facilities.

8/ Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974); City and County of Honolulu, Department of General Planning, Oahu Land Use Inventory, 1976, special tabulation; County of Hawaii, Planning Department, Hawaii County Land Use Inventory, December 1976, special tabulation.

Table 96.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1975

Subject	Oahu total	City of Honolulu 1/	Rest of Oahu
LAND USE (IN ACRES)			
All existing uses	373,593	51,485	322,108
Single family	24,228	8,081	16,148
Multi-family	2,087	996	1,091
Industrial	6,450	2,875	3,575
Commercial	4,089	1,587	2,501
Hotel	241	123	118
Agriculture	76,719	326	76,393
Usable vacant	41,336	4,720	36,616
Other	218,443	32,777	185,666
STRUCTURES BY YEAR BUILT			
All structures	132,565	62,432	70,133
Before 1930	10,455	7,830	2,625
1930 to 1939	11,365	7,159	4,206
1940 to 1949	17,973	10,135	7,838
1950 to 1959	31,473	15,397	16,076
1960 to 1969	41,564	15,817	25,747
1970 and later	19,234	5,841	13,393
Not reported	501	253	248
NONRESIDENTIAL FLOOR AREA 2/ (1,000 SQUARE FEET)			
All nonresidential floor area	96,907	79,548	17,359
Manufacturing	8,774	6,514	2,260
Utilities and communications	1,835	1,438	397
Contract construction	2,726	2,241	485
Wholesale trade and warehousing .	10,398	8,496	1,902
Commercial retail	16,611	11,634	4,977
Commercial services	16,490	14,481	2,009
Public and quasi-public buildings	19,992	16,033	3,959
Hotel	16,407	15,659	748
Vacant or unknown uses	3,675	3,053	623

Continued on next page.

Table 96.— LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1975 — Continued

Subject	Oahu total	City of Honolulu 1/	Rest of Oahu
DWELLING UNITS BY TYPE			
All dwelling units	216,785	128,389	88,396
Single family and duplex	120,790	54,575	66,215
Low density multi-family	9,613	1,927	7,686
High density multi-family	86,382	71,887	14,495

1/ As defined for statistical purposes. The entire island of Oahu is a single municipality.

2/ For definitions, see source, pp. 262-263.

Source: City and County of Honolulu, Department of General Planning, Planning Data for Oahu: 1975 Land Use Data by Small Area (May 1978). pp. 165, 240, 255, and 264.

Table 97.-- LAND PARCELS, BY COUNTIES: 1978 AND 1979

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1978 ...	342,284	174,125	36,283	115,832	16,044
1979 ...	352,430	177,818	38,336	119,049	17,227

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 98.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: MAY 1979

[Based on land use classifications used for real property assessment purposes]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,057,888	372,055	751,050	2,533,945	400,838
Residential	89,562	63,800	6,857	14,445	4,460
Hotel-apartment	8,075	2,761	2,202	2,172	940
Commercial	4,691	2,717	521	1,085	368
Industrial	13,869	8,067	1,554	3,487	761
Agricultural	1,941,236	137,141	406,657	1,199,503	197,935
Conservation	1,968,328	147,059	328,333	1,300,381	192,555
Unimproved residential .	32,128	10,511	4,926	12,872	3,819

1/ "Pitt codes" as established by the "Pittsburg Law" of differential tax rates for real property assessment and taxation in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement).

2/ Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of Census. The Bureau's area for total area (including inland water) are: State, 4,128,256 acres; Honolulu, 390,976; Maui, 751,616; Hawaii, 2,584,320; Kauai, 401,344.

Source: Hawaii State Department of Taxation, Tax Systems and Procedures, special tabulation, May 18, 1979.

Table 99.— ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1979

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

Year and island	Total area 1/	Classification by State Land Use Commission			
		Urban 2/	Conservation 3/	Agricultural 4/	Rural 5/
STATE TOTALS					
1964: August	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
1975: February	4,111,500.0	148,921.4	1,976,995.7	1,976,695.4	8,887.5
1977: January	4,111,500.0	149,262.9	1,976,995.7	1,976,327.2	8,914.2
1978: January	4,111,500.0	151,012.5	1,976,931.4	1,974,339.5	9,216.7
1979: January	4,111,500.0	151,929.6	1,976,105.9	1,974,229.8	9,234.7
ISLANDS: 1979					
Hawaii	2,572,400.0	34,457.0	1,309,693.5	1,228,637.5	612.0
Maui	465,800.0	15,464.7	193,678.7	252,882.2	3,774.4
Kahoolawe	28,800.0	-	28,800.0	-	-
Lanai	90,500.0	2,338.5	38,202.5	47,239.0	2,720.0
Molokai	165,800.0	3,293.1	49,767.7	111,844.2	895.0
Oahu	385,300.0	86,492.0	154,904.8	143,903.2	-
Kauai	353,900.0	9,884.4	198,758.7	144,023.7	1,233.3
Niihau	45,700.0	-	-	45,700.0	-
Kaula and Lehua	400.0	-	400.0	-	-
Northwestern Haw'n Islands	1,900.0	-	1,900.0	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U. S. Bureau of the Census, cited elsewhere in this volume.

2/ Defined as "those lands now in urban use and a sufficient reserve for future urban growth" (H.R.S., § 205-2).

3/ Includes all areas formerly designated "forest and water reserve zones" and includes, among others, "areas necessary for protecting watersheds and water sources; preserving scenic areas; providing park lands, wilderness, and beach reserves ..." (*ibid*.).

4/ Defined as lands with a "high capacity for intensive cultivation" (*ibid*.).

5/ Defined as areas "primarily of small farms mixed with very low density residential lots" (*ibid*.).

Source: Hawaii State Land Use Commission, unpublished estimates.

Table 100.-- LAND OWNERSHIP AND TENURE, BY ISLANDS: 1971-1974

[In acres. Includes area in public thoroughfares on Hawaii but excludes it elsewhere.]

Islands	Survey date	All owners 1/	Federal 2/	State 3/	Counties 3/	Private		
						Total	Fee simple	Leased
State total ...	...	4,045,931	296,765	1,399,839	2,327	2,346,999	1,857,199	489,800
Percent	...	100.0	7.3	34.6	0.1	58.0	45.9	12.1
Hawaii	1971	2,516,979	200,995	985,269	839	1,329,876	1,026,003	303,873
Maui	1972	461,402	12,275	155,284	365	293,478	255,272	38,206
Kahoolawe	1972	28,832	28,819	13	-	-	-	-
Lanai	1972	89,071	8	169	2	88,892	88,882	10
Molokai	1972	168,257	1,839	39,652	2	126,764	104,089	22,674
Oahu	1974	373,636	50,596	67,360	-	255,679	150,719	104,960
Kauai	1972	357,977	1,977	149,276	1,119	205,605	185,529	20,076
Niihau	1972	47,217	256	256	-	46,705	46,705	-
Other islands 4/ ...	1968	2,560	-	2,560	-	-	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island differ considerably from official area data in other tables.

2/ Treatment of ceded land is unspecified.

3/ County land on Oahu is included with State land.

4/ Lehua, Kaula, and the Northwestern Hawaiian Islands, except Midway.

Source: Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report: 1972 for Hawaii County (1974, p. 19), Maui County (1974, pp. 25-26), and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and N.W.H.I.); Honolulu Department of General Planning, Oahu land use inventory, 1974, special tabulation by DPED.

Table 101.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1967 TO 1977

Subject	June 30, 1967	June 30, 1972	Sept. 30, 1976	Sept. 30, 1977
OWNED				
Number of installations	137	159	264	271
Land area, total (acres)	397,463.4	396,493.8	407,894.0	407,904.3
Urban	55,430.0	10,511.0	54,705.0	54,810.1
Rural	342,033.4	385,982.8	353,189.0	353,094.2
Number of buildings	11,928	11,305	14,281	14,512
Cost, total ($1,000) 1/	1,046,138	1,178,743	1,455,082	1,438,050
Land	25,517	46,078	51,377	52,152
Buildings	515,294	584,752	816,650	772,361
Structures and facilities	505,327	547,913	587,055	613,537
Predominant usage (acres):				
Agriculture and grazing	...	-	-	-
Forest and wildlife	...	1,767.4	3,106.4	3,106.4
Parks and historic sites	...	218,318.0	228,899.4	228,898.9
Power development and distribution	...	-	-	-
Reclamation and irrigation	...	-	-	-
Office building locations	...	30.4	47.5	52.3
Military, excluding airfields 2/	...	174,945.7	128,200.4	163,835.7
Airfields	...		39,360.7	3,738.0
Harbor and port facilities	...	27.4	156.6	156.6
Flood control and navigation	...	625.7	1,482.1	1,480.8
Vacant	...	13.1	6.5	1.5
Institutional	...	1.5	359.5	359.5
Housing	...	81.4	84.5	84.5
Storage	...	-	529.8	529.8
Industrial	...	48.6	5,180.0	5,179.7
Research and development	...	11.0	6.2	6.2
Other land	...	623.6	474.4	474.4
LEASED				
Number of leases	231	253	254	226
Land area, total (acres)	30,055.6	48,601.8	47,108.2	47,262.0
Urban	21.7	35.9	145.4	147.0
Rural	30,033.9	48,565.9	46,962.8	47,115.0
Number of building locations	150	175	187	157
Floor area of buildings (square feet)	418,085	521,196	745,121	352,876
Annual rental ($1,000)	1,170	2,571	2,842	1,346

1/ At time of acquisition; includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

2/ Figure for 1972 includes all Department of Defense land used for military functions.

Source: General Services Administration, Summary Report on Real Property Owned by the United States Throughout the World (annual) and Summary Report on Real Property Leased to the United States Throughout the World (annual).

Table 102.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: 1978

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department.]

Island	Acreage: October 30, 1978		Lessees: October 1978		Applicant list: June 1978	
	Total	In homestead use	Total awards	Residential only	Total	Residential
State total	190,413.7	25,148.3	3,052	2,425	5,929	5,350
Hawaii	111,405.9	16,643.0	655	507	1,035	666
Maui	29,075.1	17.2	89	89	365	342
Molokai	26,807.9	7,424.2	552	78	324	218
Oahu	5,072.5	533.0	1,568	1,566	3,851	3,843
Kauai	18,052.4	530.9	188	185	354	281

Source: Annual Report, Department of Hawaiian Home Lands, 1977-1978, pp. 10, 11, and 18.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, cultural activities, and parks appear in this section. Information on recreational land use is given in Section 6; on transportation, in Section 18; on hotels, in Section 23.

Tourism has shown impressive growth in recent decades. Approximately 3,670,000 visitors stayed overnight or longer in Hawaii during 1978, compared with 1,315,000 in 1968 and only 172,000 in 1958. The average number present at any given time during 1978 was 96,000, almost three times the 1968 average. Total visitor expenditures (exclusive of trans-Pacific fares) in 1978 amounted to $2.2 billion, compared with $440 million a decade earlier. The 1978 visitor total included 2,500,000 from other States, 315,000 from Canada, and 470,000 from Japan. Expenditures per visitor day in 1977 averaged $54.62 for westbound visitors and $146.85 for the Japanese.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has five national parks, 61 State parks, 590 County parks, 46 golf courses, 241 tennis courts, 1,883 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors include six National or State parks, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, the Honolulu Zoo, and Polynesian Cultural Center. Total visits to 32 museums, state monuments, and similar attractions in 1978 numbered 9.5 million. Over 179,000 Hawaii residents traveled to the Mainland in 1977 and half of them were absent more than 13.5 days. Eleven theatrical groups on Oahu reported 1,331 performances of 151 productions for the 1977-1978 season, with a combined audience of 345,000. During the same period, the Honolulu Symphony Orchestra gave 109 concerts, with a total attendance of 194,000. Professional baseball drew 155,000 fans in 1978, and during the 1978-1979 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 480,000. Approximately 85,000 dogs and 66,000 cats were owned in 1970.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (chiefly in its monthly and annual research reports), the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. An extensive compilation of statistics on recreational facilities and behavior was issued by DPED in December 1975 in its State Comprehensive Outdoor Recreation Plan Technical Report. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1978.

Table 103.-- MODE OF TRAVEL AND VISITOR STATUS OF PASSENGERS ARRIVING IN HAWAII: 1970 TO 1978

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or north-bound
1970 ...	2,219,559	2,174,303	45,256	1,734,560	484,999
1971 ...	2,500,462	2,455,147	45,315	1,903,130	597,332
1972 ...	3,053,557	3,013,488	40,069	2,308,712	744,845
1973 ...	3,624,667	3,598,312	26,355	2,696,415	928,252
1974 ...	3,882,957	3,861,208	21,749	2,802,465	1,080,492
1975 ...	3,849,525	3,832,790	16,735	2,806,524	1,043,001
1976 ...	4,340,442	4,324,029	16,413	3,205,779	1,134,663
1977 ...	4,544,802	4,530,817	13,985	3,434,979	1,109,823
1978 ...	4,784,561	4,776,977	7,584	3,664,351	1,120,210

Year	Visitor status of westbound arriving passengers 1/				
	Visitors destined to Hawaii	Visitors destined beyond		Returning residents	Intended residents
		Overnight or longer	Transits		
1970 ...	1,127,950	198,185	193,798	173,252	40,073
1971 ...	1,207,898	222,457	268,001	162,967	41,562
1972 ...	1,540,268	242,469	309,595	171,772	44,388
1973 ...	1,815,443	252,418	396,508	194,974	36,886
1974 ...	1,899,632	284,988	426,507	154,154	37,007
1975 ...	1,935,396	272,021	381,419	178,040	39,233
1976 ...	2,245,252	306,349	426,666	186,684	40,690
1977 ...	2,453,541	309,771	448,521	179,298	43,617
1978 ...	2,698,831	332,108	436,942	156,901	39,476

1/ A small number of surveyed but unclassified passengers are omitted for all years. Total westbound passenger arrivals, including unsurveyed and unclassified, are shown elsewhere in this table, under "direction of travel."

Source: Hawaii Visitors Bureau, Annual Research Report (annual), and records.

Table 104.-- VISITOR ARRIVALS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES: 1968 TO 1978

Year	Visitors staying overnight or longer			Average number present		Visitor expenditures 1/ (millions of dollars)
	Total	West-bound 2/	Other	Total	West-bound 2/	
1968	1,314,571	1,015,844	298,727	33,288	29,737	440
1969	1,527,012	1,181,029	345,983	38,078	33,968	550
1970	1,746,970	1,326,135	420,835	37,631	32,716	595
1971	1,818,944	1,430,325	388,619	41,909	37,524	705
1972	2,244,377	1,782,737	461,640	51,270	46,225	840
1973	2,630,952	2,067,861	563,091	61,633	55,462	1,020
1974	2,786,489	2,184,620	601,869	65,991	59,395	1,225
1975	2,829,105	2,207,417	621,688	68,837	62,024	1,360
1976	3,220,151	2,551,601	668,550	78,540	71,233	1,640
1977	3,433,667	2,763,312	670,355	86,788	79,442	1,845
1978	3,670,309	3,030,999	639,310	96,001	88,995	2,188

1/ Excludes expenditures for trans-Pacific transportation.
2/ Arriving from the Mainland United States or Canada.
Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 105.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1970 TO 1978

Year	Total	United States	Canada	Japan	Australia and New Zealand 1/	Other Pacific and Asia 1/	All others 2/
1970 3/ ..	1,514,500	1,120,000	80,000	131,500	69,100	52,500	61,400
1971 3/ ..	1,730,000	1,253,000	100,000	180,000	82,000	66,000	49,000
1972	2,244,000	1,662,000	125,000	235,000	100,000	65,000	57,000
1973	2,630,000	1,953,000	150,000	300,000+	120,000	50,000-	57,000
1974	2,790,000	1,988,000	175,000	400,000	120,000	50,000	57,000
1975	2,830,000	1,980,000	210,000	400,000	125,000	58,000	57,000
1976	3,220,000	2,205,000	265,000	440,000	165,000	85,000	57,000
1977	3,435,000	2,360,000	300,000	440,000	165,000	90,000	60,000
1978 4/ ..	3,670,000	2,500,000	315,000	470,000	180,000	110,000	80,000

Note: the last column's 1978 value continues below.

1/ South Pacific islands included with Australia and New Zealand in 1971 and later years.
2/ Includes Europe (75,000 in 1978), Latin America and the Caribbean (18,000), and Africa (2,000).
3/ Excludes Rest and Recuperation personnel and dependents.
4/ Preliminary estimates.
Source: Hawaii Visitors Bureau, records.

Table 106.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES: 1970 TO 1978

Year	Westbound visitor arrivals 1/			Average visitor census, including eastbound and northbound 2/			
	Hawaii County	Kauai County	Maui County	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1970	445,401	410,075	447,985	27,387	3,588	3,011	3,645
1971	522,166	472,663	554,799	29,343	4,349	3,535	4,682
1972	637,562	565,386	710,050	35,834	5,153	4,136	6,147
1973	694,170	590,475	766,791	45,396	5,477	4,206	6,554
1974	742,839	601,703	852,201	47,942	6,024	4,484	7,541
1975	769,779	632,821	931,863	48,669	6,496	4,941	8,731
1976	816,514	699,275	1,110,726	55,691	6,782	5,445	10,622
1977	839,008	740,501	1,257,142	61,100	7,195	6,025	12,468
1978	908,983	837,712	1,403,054	66,346	8,094	7,069	14,492

1/ Because many visitors visit more than one island, county data sum to total greater than the State total shown in the preceding table. Data cover westbound visitors destined to or beyond Hawaii, and include one-day (non-overnight) Neighbor Island visits by these passengers. Not separately available for the City and County of Honolulu.

2/ For State totals, see preceding table.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 107.-- CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1970 TO 1978

Year	Residence 1/ (percent)		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Western states 7/	California				
1970	47.7	33.4	663	40.7	49.6	1.55
1971	46.8	32.0	741	42.6	54.0	1.61
1972	42.5	27.7	801	44.7	58.9	1.71
1973	39.4	25.5	762	44.0	56.4	1.69
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81

Year	Arriving June 1-Aug. 31 (percent)	Arriving by sea (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1970 ...	33.1	0.4	32.8	74.8	84.0	10.9	54.8
1971 ...	30.8	0.3	36.4	76.0	84.9	11.0	60.6
1972 ...	29.2	0.4	35.1	77.4	89.0	10.9	61.5
1973 ...	30.2	0.3	34.3	78.3	89.3	10.7	58.8
1974 ...	28.6	0.1	37.3	78.2	91.4	10.7	62.0
1975 ...	28.6	0.1	39.7	76.4	91.7	10.8	66.0
1976 ...	28.3	0.1	38.7	79.0	93.4	10.7	65.6
1977 ...	27.3	0.2	41.1	78.6	89.8	10.9	66.8
1978 ...	26.7	(Z)	42.8	76.5	83.0	11.2	68.2

Z Less than 0.05 percent.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Includes condominiums operating as hotels through June 1978 but excludes such facilities thereafter.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

7/ Pacific and Mountain States.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 108.-- AGE, SEX, RESIDENCE, LENGTH OF STAY, AND TRIP PURPOSE OF WESTBOUND VISITORS: 1978

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,698,831	769,110
Age:		
Under 10 years	72,395	40,732
10 to 19 years	201,253	47,589
20 to 29 years	411,492	151,873
30 to 39 years	446,605	163,765
40 to 49 years	478,327	113,048
50 to 59 years	530,498	98,036
60 years and over	404,214	63,640
Age not reported	154,047	90,427
Sex:		
Male	1,207,586	472,636
Female	1,491,245	298,474
Intended length of stay:		
1 day 1/	209,810	436,942
2 days		59,179
3 days		86,054
4 to 6 days		134,193
7 to 12 days	1,630,761	40,697
13 to 18 days	695,850	12,045
19 to 24 days	107,273	
25 to 30 days	34,210	
31 to 60 days	19,086	
61 to 90 days	578	
91 to 365 days	1,263	

Subject	Visitors to Hawaii	Visitors beyond Hawaii
Residence: 2/		
Pacific	920,857	112,050
Alaska	20,433	1,385
California	669,286	75,833
Oregon	76,109	10,716
Washington	155,029	24,116
Mountain	142,027	18,706
West North Central	150,975	12,845
West South Central	148,696	25,373
East North Central	350,854	25,084
East South Central	50,158	5,442
New England	76,746	6,746
Middle Atlantic	239,451	25,830
South Atlantic	150,471	23,808
Guam, Puerto Rico, Virgin Isl..	530	27,266
Canada	311,709	31,453
Other foreign	33,987	405,639
Residence not reported	122,370	48,868
Purpose of trip:		
Pleasure	2,044,45	335,087
Business	65,722	80,164
Business and pleasure	290,825	56,149
Government and military	11,483	72,992
Visiting relatives	117,124	22,957
Attend school	1,862	1,839
Convention	130,541	11,931
Other	4,932	70,726
Purpose not reported	31,888	117,265

1/ Includes visitors beyond Hawaii who were in transit and did not report their intended length of stay.

2/ Census divisions. For data by States, see source, table 12.

Source: Hawaii Visitors Bureau, 1978 Annual Research Report.

Table 109.— ACCOMMODATIONS, DESTINATION, OCCUPATION, AND TRIP NUMBER OF WESTBOUND VISITORS: 1978

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,698,831	769,110
Intended accommodations:		
Hotel or apartment-hotel 1/	2,212,867	292,309
Rented home or apartment 2/	179,878	4,848
Friend's or relative's home	233,325	19,920
Other accommodations	41,501	7,035
Intransits	-	436,942
Not reported	31,260	8,056
Destination:		
Hawaii	2,698,831	-
Around the world	-	29,388
Australia	-	198,279
New Zealand	-	44,035
Other Pacific	-	144,256
Japan	-	165,800
Hong Kong	-	27,041
Philippines	-	56,977
Other Asia	-	103,334
Visitor days (1,000)	30,138	2,012

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All party heads	1,495,027	548,865
Occupation:		
Professional and technical	491,251	169,084
Business, managerial, official	374,555	125,834
Clerical, office, sales	146,625	37,248
Military service	13,460	57,287
Other employed	118,609	22,586
Military dependent	2,393	4,119
Retired	187,680	24,680
Student	59,170	37,043
Other non-employed	54,406	24,443
Not reported	46,878	46,541
Trips to Hawaii:		
First trip	798,805	159,282
Second trip	251,410	79,708
Third trip	110,046	35,639
Fourth trip and over	235,772	101,422
Not reported	98,994	172,814
Persons per party	1.81	1.40

1/ Includes condominium units operated as hotels through June 1978.
2/ Beginning in July 1978, this category referred to condominium units.
Source: Hawaii Visitors Bureau, 1978 Research Report.

Table 110.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF VISITORS TO HAWAII: 1976 TO 1978

Subject	1976	1977	1978
Number of respondents in sample	5,482	5,462	5,303
Family income before taxes (percent)	100.0	100.0	100.0
Under $10,000	8.9	6.3	5.8
$10,000 to $14,999	16.8	12.7	10.8
$15,000 to $24,999	35.5	30.6	26.8
$25,000 to $34,999	38.8	50.4	25.6
$35,000 to $49,999			17.0
$50,000 and over			14.2
Median income (dollars)	21,800	25,000+	27,600
Using travel agent (percent)	82.9	81.0	83.5
Use of prepaid package tour (percent)	100.0	100.0	(X)
Yes	40.2	35.7	(X)
Partly	27.0	26.1	(X)
No	32.8	38.2	(X)
Islands visited (percent):			
Oahu only	30.1	27.0	24.9
Hawaii	40.0	35.8	36.5
Maui	53.2	56.7	56.0
Kauai	39.3	37.6	37.7
Molokai 1/	...	...	0.5
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0
Far superior	38.6	39.0	39.2
Above average	51.0	50.7	50.5
Average	9.2	9.2	9.4
Below average	1.0	1.0	0.8
Quite inferior	0.2	0.1	0.1

X Question not asked in 1978.

1/ Combined with Maui before 1978.

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 111.-- VISITOR EXPENDITURES PER VISITOR DAY, BY VISITOR ORIGIN: 1974 AND 1977

[In dollars. Excludes transpacific travel costs.]

Subject	Westbound visitors 1/		Visitors from Japan	
	1974	1977	1974	1977
Total expenditure	46.20	54.62	123	146.85
By type of expenditure:				
Food and beverages	13.12	14.64	...	27.04
Restaurant 2/	10.66	12.04	...	23.10
Nightclub	1.12	1.14	...	3.94
Groceries	1.34	1.46	...	...
Entertainment	2.12	2.61	...	12.41
Attractions	1.58	2.07	...	...
Other entertainment	0.54	0.54	...	...
Transportation	5.16	6.27	...	21.14
Ground transportation 3/	2.55	1.21	...	3.94
U-drive		1.80	...	...
Interisland travel	1.26	2.00	...	17.20
Sightseeing tours	1.35	1.26	...	...
Clothing	4.96	4.98	...	8.37
Gifts and souvenirs	4.46	5.23	41	51.40
Lodging	13.34	17.37	...	16.80
All others	2.22	2.69	...	9.69
Unclassified	0.82	0.83	...	...
By place of expenditure:				
Oahu	46.75	54.17	...	...
Other islands	45.16	49.97	...	...
By travel status:				
In organized tour groups .	52.06	60.04	...	...
Individual visitors	42.91	51.64	...	...
Sample size (number of parties	1,669	1,582	190	638

1/ Mostly residents of the Mainland United States, but also including some residents of Australia, Asia, and the South Pacific returning home from trips to the Mainland United States.

2/ Figure for 1977 visitors from Japan refers to total expenditures for food.

3/ Figure for 1977 visitors from Japan refers to total transportation expenditures excluding interisland travel.

Source: Hawaii Visitors Bureau, 1974 Visitor Expenditure Survey (July 1975), pp. 4-6; 1977 Visitor Expenditure Survey (July 1978), pp. 4-6 and 32; and records.

Table 112.— ILLUSTRATIVE PROJECTIONS OF TOURISM: 1980 TO 2000

[Consistent with Series II-F population projections. For assumptions and methodology, see source.]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)	Visitor expenditures 1/	Hotel rooms 2/ (1,000)			Hotel employment (1,000)
				State total	Oahu	Other islands	
1980 ...	4,142	98.6	2,054	54.1	31.9	22.2	27.6
1985 ...	5,286	122.7	2,670	66.1	36.4	29.8	34.0
1990 ...	6,432	149.3	3,248	78.1	39.0	39.0	39.3
1995 ...	7,456	173.0	3,766	89.1	41.9	47.2	43.4
2000 ...	7,836	181.8	4,158	93.8	42.2	51.6	45.7

NA Not available.

1/ In millions of constant (1975) dollars.

2/ Projections based on average occupancy rates of 80 percent on Oahu and 70 percent on other islands.

Source: Hawaii State Department of Planning and Economic Development, Long-Range Population and Economic Simulations and Projections for the State of Hawaii (March 1, 1978), pp. 39, 40, and 77.

Table 113.— MEETINGS AND CONVENTIONS: 1977 AND 1978

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1977	413	150,418	72,155	69,313
1978	536	230,273	106,963	113,135

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 114.-- HAWAII VISITORS BUREAU EXPENDITURES AND STATE APPROPRIATIONS FOR PROMOTION OF TOURISM: 1977 TO 1979

[In dollars]

Year ended June 30	Hawaii Visitors Bureau expenditures				State appropriations 1/
	Total	Private funds	Public funds		
			Amount	Percent	
1977	2,638,045	725,809	1,912,238	72.5	1,883,000
1978	2,850,412	875,052	1,975,360	69.3	2,193,904
1979	...	...	...	...	2,293,700

1/ Total appropriations for tourism promotion, exclusive of separate appropriations for the Tourism Advisory Committee, Visitor Information Program, Office of Tourism, and special studies.

Source: Hawaii Visitors Bureau, records; Session Laws of Hawaii (annual).

Table 115.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1977 AND 1978

Passport category and first area destination	1977	1978
Issued by Honolulu Passport Agency 1/	28,355	28,533
Issued to Honolulu residents, total 2/	27,020	28,280
Europe	6,770	11,280
Mid East	380	330
Far East	12,320	9,980
North, Central, and South America	850	1,030
Africa	120	200
Australia and Oceania	6,580	5,460
World tour	-	-

1/ Includes passports issued to persons not residing in Hawaii.

2/ Includes passports issued by offices not in Hawaii.

Source: U.S. Department of State, Bureau of Consular Affairs, records.

Table 116.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1977

Subject	1961 1/	1967	1972	1977
Number returning	41,450	130,995	171,772	179,298
Oahu residents (percent) 2/	86.0	88.0	87.2	84.9
Median age (years)	32.9	...	...	...
Males per 100 females	125.9	...	...	...
Persons per party	1.35	1.24	1.36	1.39
Armed forces (percent)	6.2	11.7	2.6	...
Average number absent 3/	5,200	14,800	11,900	10,100
Days absent: Median 3/	23.7	18.4	13.8	13.5
Average 3/	49.6	45.9	25.3	20.6
Returning from Calif. (percent) ...	52.8	...	...	...
Traveling by air (percent)	97.4	99.4	99.9	...

1/ Year ended June 30.
2/ Armed forces excluded in 1967 and 1972.
3/ For persons absent 1 to 365 days.
Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1977 (Statistical Report 122, June 23, 1978).

Table 117.-- ZOOS: 1978

Zoo	Island	Animal and bird inventory		Attendance
		Species	Individuals	
Coco Palms	Kauai	11	45	1,081
Honolulu Zoo	Oahu	403	1,817	1,500,000
Maui Zoological & Botanical Gardens	Maui	(NA)	111	54,450
Panaewa Rainforest Zoo	Hawaii	47	157	31,030

NA Not available.
Source: Data compiled by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel; Honolulu Department of Parks and Recreation; Maui Zoological Gardens; and Hawaii County Department of Parks and Recreation.

Table 118.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1978

Island and cultural attraction	Attendance
All attractions	9,504,500
Oahu	8,269,718
Bernice P. Bishop Museum	356,900
Exhibition halls	187,100
Planetarium	97,600
Falls of Clyde Maritime Museum	47,400
Heritage Theatre	24,800
Foster Botanical Gardens	122,200
Honolulu Academy of Arts	148,202
Exhibition halls	144,242
Alice Cooke Spalding House 1/	3,960
Iolani Palace State Monument 2/	24,000
Kahuku Sugar Mill	400,000
Mission Houses Museum	19,449
Mormon Temple Grounds, Laie 3/	432,968
National Memorial Cemetery	2,460,612
Pacific Submarine Museum	40,355
Paradise Park	330,000
Polynesian Cultural Center	1,000,000
Queen Emma Summer Palace	12,872
Royal Mausoleum State Mon.	91,000
Sea Life Park 4/	650,000
Tropic Lighting Historical Center	13,000
U.S. Army Museum, Ft. DeRussy	141,204
U.S.S. Arizona Memorial	1,271,175
By Navy boats	733,504
By civilian boats	537,671
Wahiawa Botanical Gardens	52,329
Waikiki Aquarium	272,883
Waimea Falls Park	430,569
Hawaii	997,333
Hulihee Palace	23,048
Kamuela Museum	17,602
Kilauea Visitor Center 5/	928,792
Lyman House Memorial Museum	27,891
Maui	73,574
Baldwin Home Missionary Museum	36,646
Hale Hoikeike	5,928
Halekii-Pihana State Monument 2/	31,000
Kauai	152,706
Hanalei Museum	6,500
Kauai Museum 6/	29,876
Kokee Natural History Museum	109,121
Waioli Mission House	7,209
Molokai	11,169
Kalaupapa Settlement	11,169

1/ Operation ended March 6, 1978.
2/ Year ended June 30, 1978.
3/ Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center.
4/ Year ended February 28, 1979.
5/ Hawaiian Volcanoes National Park.
6/ Year ended September 30, 1978.

Source: Data supplied to Hawaii State Department of Planning and Economic Development by State park, museum, and other officials.

Table 119.-- NATIONAL PARK ACREAGE AND VISITS: 1978

Facility	Acreage, Dec. 31		Visits
	Federal	Non-Federal	
All areas	237,732	11,478	3,572,504
Haleakala National Park	27,055	229	739,746
Hawaii Volcanoes National Park	210,462	9,883	2,321,980
Kaloko-Honokohau National Cultural Park 1/	-	1,300	-
Pu'uhonua o Hōnaunau National Historical Park 2/	181	-	491,985
Puukohola Heiau National Historic Site	34	66	18,793

1/ Established November 1978.

2/ Formerly City of Refuge National Historical Park; given present name November 10, 1978.

Source: U.S. Department of the Interior, National Park Service, Hawaii State Office, records.

Table 120.-- STATE AND COUNTY PARKS: 1978

County	State parks				County parks 1/	
	Number of areas 2/	Acreage 2/		Visits 3/ (1,000)	Number of areas	Acreage
		Total	Developed			
State total ..	61	20,229.9	706.8	15,502	590	7,770
Hawaii	15	2,157.8	291.3	3,675	129	1,378
Maui	12	431.8	58.5	3,427	86	890
Honolulu	22	8,247.2	151.5	1,682	317	4,983
Kauai	12	9,393.1	205.5	6,718	58	519

1/ As of December 31. Data exclude 22 beautification/maintenance areas on Kauai, with an area of 49 acres.

2/ As of June 30.

3/ Year ended June 30.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, records; City and County of Honolulu, Department of Parks and Recreation, records; Hawaii County Department of Parks and Recreation, records; Maui County Department of Parks and Recreation, records; Kauai County Department of Public Works, records.

Table 121.-- PARTICIPATION IN RECREATIONAL ACTIVITIES: 1975

Activities	Activity occasions per 1,000 population 1/		Percent of total participation by visitors 2/
	Weekend	Weekday	
Walking, jogging	97.0	103.0	21
Hiking	11.5	6.0	...
Camping	38.4	10.5	1
Group camping	1.9	1.0	...
Picnicking	103.0	23.0	...
Hunting, shooting	3.4	0.8	...
Archery	0.7	0.8	...
Golf	20.8	4.7	15
Swimming, sunbathing	176.0	83.3	26
Diving	22.0	6.8	8
Surfing	30.3	19.1	9
Boating	14.5	2.0	17
Canoe paddling	5.3	2.5	...
Fishing	32.4	11.8	4
Game playing	74.0	83.8	6
Tennis	9.7	14.2	...
Attending outdoor events	62.7	15.3	17
Bicycling	84.6	81.7	...
Motorcycling	5.3	3.1	...
Other activities	22.6	12.5	...

1/ Hawaii residents only.

2/ Visitor activity occasions as percent of sum of visitor activity occasions and peak resident activity occasions.

Source: Aotani & Hartwell Associates, Inc., State Comprehensive Outdoor Recreation Plan Technical Report (December 1975), pp. 26, 37, 44, and 54.

Table 122.-- SELECTED RECREATIONAL ACTIVITIES: 1977 AND 1978

Subject	1977	1978
Camping permits (Oahu)	10,705	9,569
Licenses issued:		
Fresh water game fishing	8,129	8,804
Hunting	12,519	11,925
Public golf courses (Oahu):		
Holes	63	63
Rounds played	379,012	398,337
Visitor permits issued for Mauna Kea	598	1,521

Source: Hawaii State Department of Land and Natural Resources, records; City and County of Honolulu, Department of Parks and Recreation, records.

Table 123.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1979 SEASON

Subject	Regular season 1/		Playoffs	
	First half	Second half	Divisional	Championship
Games played	74	74	3	3
Won	42	30	2	-
Lost	32	44	1	3
Tied	-	-	-	-
Percent won	.568	.405	.667	.000
Games ahead or behind	+1 1/2	-11	...	...
Home openings	35	33	-	-
Home attendance	73,537	102,512	-	-

1/ Split season introduced in 1979.
Source: Ferd Borsch, Islanders scorer, records.

Table 124.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1977-1978 AND 1978-1979

[Data limited to games played against four-year collegiate teams.]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball:					
1977-1978 1/ ...	38	14	1	24	28,492
1978-1979 2/ ...	69	15	-	45	81,162
Basketball: 3/					
1977-1978	1	26	-	22	83,541
1978-1979	10	17	-	20	71,902
Football:					
1977-1978	5	6	-	9	255,547
1978-1979	6	5	-	9	327,295

1/ Including the Rainbow Easter Tournament.
2/ Including the Rainbow Easter Tournament and post-season play (Midwest Regionals).
3/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 125.-- PUBLIC HIGH SCHOOL SPORTS EVENTS: 1977-1978 SEASON

[Includes both boys' and girls' sports]

Sport	Games	Attendance	Expenditure (dollars)
Baseball	1,577	220,665	110,500
Basketball	2,040	1,632,000	93,020
Football	768	1,536,000	330,035

Source: Hawaii State Department of Education, Office of Instructional Services, Student Personnel Services Section, records.

Table 126.-- OUTDOOR RECREATION FACILITIES AND RESOURCES, BY ISLAND: 1975-1978

Facility	Six islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Golf courses: 1/							
9-hole	10	2	2	1	2	2	1
18-hole	27	6	5	-	1	13	2
27-hole	1	-	-	-	-	-	1
Tennis: 2/							
Locations	76	18	12	1	2	32	11
Courts	241	41	45	2	4	100	49
Small-craft moorage: 3/							
Catwalks and piers	1,098	30	41	21	3	955	48
Other facilities	785	227	115	-	29	371	43
Sandy shoreline: 4/							
Total mileage	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary mileage 5/	24.4	1.2	7.9	-	-	12.5	2.8
Surfing sites 6/	1,600	185	212	99	180	594	330

1/ As of March 1978. Excludes the 8 Air Force, Army and Navy courses, all on Oahu.

2/ As of September 1975. Includes all public courts, and private and hotel courts open to the public. Excludes 12 hotel locations (36 courts) open only to guests.

3/ Capacity as of April 1978.

4/ Surveyed 1962.

5/ Safe, clean, accessible, and generally suitable for swimming.

6/ Surveyed 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

Source: Hawaii Visitors Bureau, Golf & Tennis in Hawaii (leaflet, 1975 and 1978); Hawaii State Department of Transportation, Water Transportation Facilities Division, records; Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 127.-- PERFORMING ARTS: 1977-1978 SEASON

Organization and type of performance	Productions	Performances	Attendance
Theater groups reporting	151	1,331	344,625
Brigham Young University--Hawaii Campus	2	7	3,400
Chaminade University of Honolulu	2	14	320
Hawaii Loa College	2	8	900
Hawaii Performing Arts Co., Ltd.	17	250	20,500
Hawaii Theatre Festival	16	348	32,255
Honolulu Community Theatre	8	89	35,137
Honolulu Theatre for Youth	6	260	132,694
Leeward Community College 1/	76	222	75,700
USASCH Recreation Services Theatre Guild 2/	6	37	7,928
University of Hawaii at Manoa, University Theatre 3/	12	70	33,722
Windward Theatre Guild 4/	4	26	2,069
Honolulu Department of Auditoriums	103	182	506,177
Ballets	3	9	18,635
Concerts	23	67	122,709
Operas	4	16	29,290
Rock shows	43	49	263,777
Other dramatic and musical productions	30	41	71,766

1/ Incomplete for April, July and August 1978.

2/ Other activities sponsored by the Music and Theatre Branch, Recreation Services Division, Directorate of Personnel and Community Activities, USASCH, included 10 concerts (10 performances attended by 45,000), 15 music festivals, special events, Festival of the Performing Arts presentations (15 performances attended by 141,955), and 13 variety shows (17 performances attended by 51,275).

3/ All performances were on-campus.

4/ The 1976-1977 season (not previously reported) included 4 productions and 21 performances attended by 1,978.

Source: DPED survey of organizations listed.

Table 128.-- HONOLULU SYMPHONY ORCHESTRA: 1976-1977 AND 1977-1978

Season	Average number of orchestra personnel	Number of perform- ances	Number of opera produc- tions	Total attend- ance	Operating expenses (dollars)
1976-1977	80	136	3	200,000	1,654,050
1977-1978	75	109	3	194,474	1,989,814

Source: Honolulu Symphony Society, records.

Table 129.-- HOUSEHOLDS WITH SPECIFIED PETS, BY TYPE: 1970

Pet	Number of households with pets		Percent of households with pets		Number of pets in households 1/	
	State total 2/	Oahu only	State total 2/	Oahu only	State total 2/	Oahu only
Dogs	59,200	44,600	29.1	27.1	85,000	59,600
Cats	34,200	24,200	16.8	14.7	65,800	40,700
Pet birds ...	14,800	12,700	7.3	7.7	...	...
Fish	20,600	18,200	10.1	11.0	...	...
Turtles	5,400	4,600	2.7	2.8	...	...
Rodents 3/ ..	6,320	5,270	3.1	3.2	...	...

1/ Not compiled for pets other than dogs and cats.
2/ Excluding Niihau.
3/ Rabbits, guinea pigs, rats, mice, and chinchillas.

Source: John V. Gooch, D.V.M., Public Health Veterinarian, Communicable Disease Division, Hawaii State Department of Health.

Table 130.-- LICENSED DOGS, BY ISLANDS: 1977 AND 1978

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1977	46,069	4,524	5,504	134	438	33,139	2,330
1978	50,851	5,200	5,361	137	365	38,215	1,573

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the financial structure and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1978 reached $2,229 million, almost triple the level reported ten years earlier. The 1978 total included $1.2 billion in U.S. taxes, $996 million in State taxes, and $34 million in County taxes, licenses and fees. Individual income taxes accounted for 85 percent of Federal collections and 23 percent of State collections in Hawaii in 1978. State revenue receipts totaled $1,421 million, chiefly from the General Excise and Use Tax ($368 million) and Federal grants-in-aid ($376 million). The largest expenditure item in the State accounts for 1978 was education, with $450 million (out of $1,460 million) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. The estimated tax burden for a four-person family with per capita personal income equal to the State average in 1978 was $12,308, including both direct taxes ($8,921) and employment taxes paid by employers ($3,596).

Assessed valuation of the State tripled between 1969 and 1979, reaching $19.4 billion by the end of the decade; of this total, $6.4 billion was exempt from taxation. Public bonded debt outstanding at the end of 1978 exceeded $1.9 billion. Average government employment reported for 1978 was 87,050, about 26 percent over the 1968 average. The 1978 total included 29,350 Federal workers, 43,350 persons employed by the State, and 14,350 persons on County payrolls. State civil service employees as of mid-1978 numbered 16,577.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1978, Sections 9 and 10.

Table 131.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1968 TO 1978

Fiscal years	All levels of government		Federal ($1,000)	State ($1,000)	Counties ($1,000)
	Amount ($1,000)	Per capita 1/ (dollars)			
1968 2/ ...	807,791	1,100	440,237	353,823	13,731
1969	922,122	1,229	526,624	379,881	15,617
1970	1,057,376	1,363	602,998	438,397	15,981
1971	1,105,657	1,381	608,051	480,690	16,916
1972	1,162,700	1,412	632,583	512,047	18,070
1973	1,327,151	1,572	735,359	571,689	20,104
1974	1,512,414	1,768	840,089	650,855	21,470
1975	1,852,804	2,135	1,087,520	743,926	21,358
1976	1,821,934	2,062	945,899	850,639	25,396
1977 2/ ...	2,038,318	2,287	1,106,687	905,949	25,682
1978 3/ ...	2,228,784	2,486	1,208,480	986,187	34,117

1/ Based on total resident population, July 1 (see table 2).
2/ Revised from 1978 edition, table 148.
3/ Preliminary.
Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 132.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCE: 1968 TO 1978

[In thousands of dollars. For fiscal years ended June 30.]

Source	1968	1977	1978
Total, all levels	807,791	2,038,318	2,228,784
Federal collections	440,237	1,106,687	1,208,480
Indiv. income and employment ..	366,171	922,574	1,024,630
Corp. income and excess profits	53,611	134,840	147,164
Other sources	20,455	49,273	36,686
State collections	353,823	905,949	986,187
General excise and use	114,460	341,327	367,660
Fuel	21,911	44,227	46,113
Liquor	6,291	16,222	18,044
Public service companies	10,545	31,201	33,401
Corporate income	11,196	22,744	23,836
Indiv. income, net income	70,312	203,018	227,216
Real property	93,205	149,224	155,427
Unemployment compensation	11,461	61,435	73,706
Other sources	14,442	36,551	40,784
County collections	13,731	25,682	34,117
Motor vehicle weight	8,777	12,952	20,920
Other sources	4,954	12,730	13,197

Source: Tax Foundation of Hawaii, Government in Hawaii, 1979 pp. 18 and 34.

Table 133.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1976 AND 1978

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii.]

Tax category 1/	1976 (dollars)	1978 (dollars)	Percent increase
Total tax burden 2/	10,081	12,308	22.1
Direct taxes	8,132	8,921	9.7
Real property	481	529	10.0
Automobile	188	219	16.5
General excise (sales)	387	463	19.6
Specific excise	113	52	-54.0
State income	1,429	1,758	23.0
Federal income	4,112	4,206	2.3
Social Security	1,422	1,694	19.1
Employment taxes paid by employer	2,693	3,596	33.5
Social Security	1,422	1,694	19.1
Unemployment Compensation	510	770	51.0
Workers' Compensation	635	1,005	58.3
Temporary Disability	126	127	0.8
Assumed gross family income	26,632	30,708	15.3
Net income	16,551	18,400	11.2
Consumer price index (1967=100)	162.8	184.1	13.1

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (April 1977 and April 1979).

Table 134.-- STATE REVENUE RECEIPTS: 1977 AND 1978

[In thousands of dollars. Years ended June 30.]

Source of revenues	1977: all funds	1978		
		All funds	General fund	Special fund
Total	1,312,320	1,421,260	773,225	648,035
Tax revenues	745,252	798,744	710,508	88,236
General excise	341,324	367,660	367,660	-
Specific excises	104,901	120,111	79,388	40,724
Individual income	203,018	227,216	227,216	-
Corporate income	22,744	23,836	23,836	-
Unemployment compensation	61,369	47,086	-	47,086
Other taxes, licenses, permits	11,895	12,835	12,409	426
Fines, forfeits, and escheats	4,225	4,891	4,573	319
Federal grants-in-aid	327,607	376,233	7,336	368,897
Revenues from other agencies	3,060	1,623	856	767
Rents, royalties, land income	22,289	25,636	9,555	16,081
Earnings: general departments	73,651	87,432	30,465	56,967
Earnings: public service enterprises	60,832	66,393	-	66,393
Repayment debt costs: counties	1,524	910	910	-
Interest earned	558	712	712	-
Miscellaneous	73,323	58,686	8,310	50,376

Source: Tax Foundation of Hawaii, Government in Hawaii, 1979, p. 17.

Table 135.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1968 TO 1978

[In thousands of dollars. For years ended June 30.]

Functions	1968 1/	1977	1978
Total	416,453	1,391,157	1,459,601
General government: Control	6,735	22,408	24,174
Staff	16,584	58,471	40,357
Public safety: Police and fire	81	2,455	2,723
Other protection	20,273	62,800	79,584
Highways	36,223	28,261	29,057
Natural resources	13,963	15,310	22,413
Health and sanitation	6,899	24,794	29,992
Hospitals and institutions	18,628	73,322	73,159
Public welfare	31,436	203,520	241,795
Education: Higher	63,007	155,758	164,851
Public schools	104,684	256,114	254,979
Libraries and other	3,945	13,348	29,917
Recreation	2,084	12,106	7,777
Utilities and other enterprises	15,627	37,693	37,798
Debt service	21,397	108,698	118,264
Retirement and pension	18,887	49,614	66,604
Employees' health and hospital insurance	3,566	11,495	12,025
Unemployment compensation	13,761	99,729	66,824
Giants-in-aid to counties	11,427	21,560	22,327
Urban redevelopment and housing	-	38,111	39,497
Miscellaneous	7,246	13,931	35,727
Cash capital improvements	-	81,660	59,756

1/ Not exactly comparable to data for later years.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1979, p. 41.

Table 136.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1978

[In thousands of dollars. For year ended June 30.]

Subject	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
OPERATING REVENUES				
Total	314,240	40,921	17,258	30,973
Real property taxes	120,720	16,982	6,148	11,578
Other taxes	24,615	3,844	1,960	2,874
Fees, licenses and permits	6,016	822	256	869
Departmental earnings	21,872	1,680	1,065	2,943
State grants	12,486	7,354	4,272	7,650
Federal grants	123,651	10,048	3,093	4,878
Other sources	4,879	190	463	182
OPERATING EXPENDITURES				
Total	304,953	43,970	17,851	37,495
General government	25,679	7,241	4,442	7,069
Police and fire	54,505	9,264	3,621	5,982
Other protection	7,955	2,115	355	778
Highways	11,664	2,934	1,280	2,744
Health and sanitation	23,670	1,403	505	1,019
Recreation	19,139	3,207	1,394	1,957
Interest	10,585	3,244	1,018	892
Bond redemption	14,893	2,905	839	1,309
Pension and retirement	17,664	4,552	1,550	2,682
Econ. and urban development	32,110	–	–	–
Mass transit	23,356	556	–	–
Miscellaneous	12,582	1,914	2,185	4,966
Cash capital improvements	51,151	4,633	662	8,098

Source: Tax Foundation of Hawaii, Government in Hawaii, 1978, pp. 30, 31, 42, and 43.

Table 137.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1977 AND 1978

[In dollars. Partly estimated.]

Source of revenue	Tax base		Tax collections	
	1977	1978	1977	1978
Total ...	12,655,433,575	13,944,124,550	352,028,751	392,235,540
Retailing	4,222,169,425	4,774,075,975	168,886,777	190,963,039
Services	1,095,066,275	1,222,996,125	43,802,651	48,919,845
Contracting ..	983,618,125	1,060,898,050	39,344,725	42,435,922
Theater, amuse. radio, etc.	92,826,800	104,084,775	3,713,072	4,163,391
Interest	88,475,550	89,447,850	3,539,022	3,577,914
Commissions ..	211,761,150	261,025,100	8,470,446	10,441,004
Hotel rentals	482,989,500	535,873,975	19,319,580	21,434,959
Other rentals	791,928,725	857,073,100	31,677,149	34,282,924
Use (4%)	134,888,950	138,237,600	5,395,558	5,529,504
All others ...	131,988,125	148,808,700	5,279,525	5,952,348
Insurance solicitors .	33,442,750	36,420,300	668,855	728,406
Sugar processing .	284,000,000	291,000,000	1,420,000	1,455,000
Pineapple canning	111,942,200	131,665,400	559,711	658,327
Producing	136,868,600	151,955,200	684,343	759,776
Manufacturing	466,470,200	494,498,000	2,332,351	2,472,490
Blind, deaf and disabled	3,192,200	5,580,200	15,961	27,901
Wholesaling ..	1,989,980,600	2,158,707,200	9,949,903	10,793,536
Services (intermediary) ...	46,687,000	49,793,200	233,435	248,966
Use (1/2%) ...	1,347,137,400	1,431,983,800	6,735,687	7,159,919
Penalties and interest ...	-	-	-	230,369

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (annual tabular releases).

Table 138.-- REAL PROPERTY TAX VALUATIONS: 1969 TO 1979

[Dollar amounts in thousands. Real property was legally assessed at 70 percent of market value in 1969 and 60 percent in 1978 and 1979.]

Subject	Jan. 1, 1969: State total	Jan. 1, 1978: State total	January 1, 1979, by counties				
			State total	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation	6,555,382	17,761,105	19,376,848	14,839,129	2,144,237	1,699,457	694,025
Land	3,816,477	9,846,501	10,690,826	8,165,707	1,180,341	961,656	383,122
Improvements	2,738,905	7,914,604	8,686,022	6,673,422	963,896	737,801	310,903
Exemptions	2,465,690	6,103,764	6,402,561	5,390,055	352,453	506,384	153,669
Federal	675,512	1,101,296	1,113,142	1,093,786	3,175	11,301	4,880
State	719,561	1,678,114	1,722,988	1,427,813	87,650	177,358	30,167
County	236,981	529,798	548,955	478,926	33,290	24,299	12,440
Hawaiian Homes Commission	8,026	30,092	22,491	9,075	2,991	8,999	1,426
Homes, fee	385,529	1,449,409	1,528,033	1,071,668	164,005	208,638	83,722
Homes, leasehold	107,536	496,465	513,426	489,502	8,615	13,583	1,726
Public utilities	44,196	112,076	121,302	101,445	9,507	8,706	1,644
All other 1/	288,349	706,514	832,224	717,840	43,220	53,500	17,664
Assessor's net taxable valuation .	4,089,692	11,657,341	12,974,287	9,449,074	1,791,784	1,193,073	540,356
Half of valuation on appeal	27,632	125,855	66,114	44,861	14,657	1,700	4,896
Number of appeals	837	2,602	1,106	591	253	147	115
Valuation for tax rate purposes ..	4,062,060	11,531,484	12,908,172	9,404,212	1,777,127	1,191,373	535,460
Land	2,508,197	6,715,724	7,430,334	5,342,967	1,019,693	751,403	316,271
Improvements	1,553,863	4,815,760	5,477,839	4,061,246	757,434	439,970	219,189
Amounts to be raised by taxation .	76,340	170,368	183,812	143,226	11,498	21,324	7,764

1/ Mostly churches, nonprofit organizations, and schools.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual tabular release).

Table 139.-- COUNTY REAL PROPERTY TAX RATES: 1979-1980

[Rates per $1,000 assessed valuation. Real property is legally assessed at 60 percent of market value.]

County	Improved residential	Hotel/ apartment	Commercial	Industrial	Agricultural	Conservation	Unimproved residential
Honolulu:							
Land	15.23	16.22	16.27	15.79	15.23	15.23	16.22
Improvements ..	15.23	14.60	14.65	14.20	15.23	15.23	14.60
Maui:							
Land	6.47	6.86	6.72	6.80	6.47	6.47	6.86
Improvements ..	6.47	6.17	6.05	6.12	6.47	6.47	6.17
Hawaii:							
Land	17.90	19.05	18.95	19.05	17.90	17.90	19.05
Improvements ..	17.90	17.15	17.05	17.15	17.90	17.90	17.15
Kauai:							
Land	14.50	15.27	15.23	15.49	14.50	14.50	15.27
Improvements ..	14.50	13.74	13.71	13.94	14.50	14.50	13.74

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1979-80" (tables).

Table 140.-- ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1967 TO 1977

Year earned	Number of returns	Adjusted gross income (less deficit)	
		Total ($1,000)	Per return (dollars)
1967	263,518	1,910,919	7,252
1968	273,823	2,113,522	7,719
1969	290,251	2,407,048	8,293
1970	302,426	2,802,445	9,267
1971	308,814	3,010,051	9,747
1972	318,023	3,250,608	10,221
1973	345,211	3,749,212	10,861
1974	346,824	3,957,023	11,409
1975	358,510	4,269,028	11,908
1976	362,956	4,625,609	12,744
1977 1/	377,112	5,263,490	13,957

1/ Preliminary.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns (annual), and records.

Table 141.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1970, 1975, AND 1976

[By year in which income was earned. Not precisely comparable among all years, due to changes in law, return forms, and other factors.]

Adjusted gross income	1970	1975	1976 1/
All returns	302,426	358,510	362,956
Under $1,000	38,320	24,751	48,812
$1,000 under $2,000	13,252	24,751	
$2,000 under $3,000	25,056	25,369	46,255
$3,000 under $4,000	18,429	24,813	
$4,000 under $5,000	18,179	14,621	41,056
$5,000 under $6,000	18,495	19,297	
$6,000 under $7,000	20,993	17,093	28,096
$7,000 under $8,000	13,083	13,652	
$8,000 under $9,000	11,342	14,836	19,022
$9,000 under $10,000	12,552	14,576	
$10,000 under $11,000	14,355	12,805	21,796
$11,000 under $12,000	10,405	14,841	
$12,000 under $13,000	12,112	11,245	23,410
$13,000 under $14,000	11,138	8,095	
$14,000 under $15,000	8,086	9,341	13,781
$15,000 under $20,000	31,559	42,117	41,825
$20,000 under $25,000	13,173	29,754	34,497
$25,000 under $30,000	4,698	15,710	21,082
$30,000 under $50,000	5,411	16,914	18,318
$50,000 under $100,000	1,480	3,253	4,250
$100,000 under $200,000	254	531	627
$200,000 under $500,000	50	125	108
$500,000 under $1,000,000	4	15	18
$1,000,000 or more		5	3
Median income (dollars)	6,928	9,005	9,815

1/ Reflects revised size classes used in 1976 and 1977 published data.

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns* (annual), and records.

Table 142.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1976, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Net taxable income (dollars)	Tax liability (dollars)
All returns	372,484	4,279,267,985	2,832,875,062	195,542,099
Taxable returns	297,417	4,116,634,729	2,791,903,834	193,023,354
$500, under $1,000	4,039	3,729,948	279,239	8,637
$1,000, under $2,000	23,158	34,468,297	12,717,741	331,676
$2,000, under $3,000	18,872	47,100,330	24,451,259	825,636
$3,000, under $4,000	16,735	58,600,815	35,293,717	1,443,766
$4,000, under $5,000	14,732	66,752,804	41,860,091	1,950,973
$5,000, under $6,000	14,338	78,748,609	48,577,445	2,435,150
$6,000, under $8,000	27,873	194,204,857	124,545,136	6,798,519
$8,000, under $10,000	23,225	207,007,619	138,259,373	8,261,736
$10,000, under $15,000 ...	47,162	585,978,932	390,775,743	24,611,594
$15,000, under $20,000 ...	37,745	658,957,858	446,220,673	29,509,476
$20,000, under $25,000 ...	27,030	602,456,908	411,560,384	28,466,332
$25,000, under $30,000 ...	17,171	468,617,866	324,110,426	23,375,245
$30,000, under $50,000 ...	20,919	754,571,212	527,983,690	40,643,175
$50,000, under $75,000 ...	2,938	176,066,028	128,824,667	11,099,035
$75,000, under $100,000 ..	784	65,643,420	55,111,160	5,181,166
$100,000, under $150,000 .	480	57,482,297	40,421,311	3,905,488
$150,000 and over	216	56,246,929	40,911,779	4,175,750
Nontaxable returns	56,223	83,616,829	-	-
Loss	1,465	-6,338,505	-	-
Under $500	25,304	3,788,178	-	-
$500, under $1,000	13,514	9,475,722	-	-
$1,000, under $2,000	4,484	6,608,335	-	-
$2,000, under $3,000	3,606	8,877,516	-	-
$3,000, under $4,000	2,308	7,812,216	-	-
$4,000, under $5,000	1,529	6,767,290	-	-
$5,000 and over	4,013	40,287,572	-	-
Nonresident returns	18,844	79,016,427	40,971,228	2,518,745

1/ Totals and subtotals exclude losses.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1976, Individuals (forthcoming).

Table 143.-- FEDERAL AID: 1970 TO 1977

[In thousands of dollars]

Period	Amount
Years ended June 30:	
1970	123,582
1971	132,839
1972	163,355
1973	210,535
1974	245,308
1975	246,778
1976	309,151
July 1, 1976-Sept. 30, 1976	82,267
Year ended September 30:	
1977	400,144

Source: U.S. Department of the Treasury, Federal Aid to States (annual).

Table 144.-- FEDERAL OUTLAYS IN HAWAII: 1968 TO 1978

[In thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970 (revised)	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715
1978	2,507,095	1,239,947	1,267,148

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1978), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977 and 1978).

Table 145.-- FEDERAL OUTLAYS IN HAWAII, BY AGENCY AND FUNCTION: YEAR ENDED SEPTEMBER 30, 1978

Agency and function	Outlay ($1,000)
Total outlays	2,507,095
Agency:	
Dept. of Agriculture	116,818
Dept. of Commerce	12,262
Dept. of Defense	1,239,947
Dept. of Health, Education, and Welfare	541,261
Dept. of Housing and Urban Development	16,663
Dept. of the Interior	10,886
Dept. of Labor	67,066
Dept. of State	12,507
Dept. of Transportation	147,109
Dept. of the Treasury	58,317
Civil Service Commission	115,304
Environment Protection Agency	31,546
Postal Service	41,338
Veterans Administration	66,114
Other agencies (less than $10,000,000)	29,956
Function:	
Dept. of Defense--military	1,239,947
Farm income stabilization	57,287
Ground transportation	83,676
Training and employment	53,607
Health care services	139,177
General retirement and disability insurance	272,477
Federal employee retirement and disability	97,745
Public assistance and other income supplements	111,967
Other functions (less than $50,000,000)	451,212

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1978.

Table 146.— PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1958 TO 1978

[In millions of dollars. As of December 31.]

Year	Total outstanding	Governmental unit and funds charged with debt service costs	Outstanding, 1978
1958	214.4	All units	1,916.8
1959	273.8		
1960	285.6	State	1,607.1
1961	306.8	General fund	988.5
1962	312.7	Highway fund	116.9
1963	386.5	Airport revenues	248.5
1964	423.6	Other funds	253.2
1965	554.1		
1966	412.3	Honolulu	238.5
1967	472.9	General fund: State issues	0.3
1968	533.8	County issues	134.8
1969	631.3	Other funds	103.4
1970	742.0		
1971	925.5	Maui	18.2
1972	1,080.4	General fund: all issues	15.5
1973	1,219.4	Water fund and water revenues	2.7
1974	1,274.4		
1975	1,435.9	Hawaii	37.3
1976	1,667.2	General fund: State issues	0.5
1977	1,775.7	County issues	36.6
1978	1,916.8	Water revenues	0.2
		Kauai	15.7
		General fund: County issues	15.2
		Water fund: State and county issues	0.5

Source: Tax Foundation of Hawaii, A Compendium of Governmental Finances in Hawaii, 1949-1968 (November 1969), p. 71, and Government in Hawaii (annual).

Table 147.-- STATE GENERAL OBLIGATION BOND DEBT: 1968, 1977 AND 1978

[In dollars]

Subject	June 30, 1968	June 30, 1977	June 30, 1978
General obligation bond debt	261,771,200.00	1,165,459,000.00	1,336,906,000.00
Cash reserve for serial bonds	3,629,842.59	852,531.27	536,715.40
Net debt	258,141,357.41	1,164,606,468.73	1,336,369,284.60

Source: Hawaii State Department of Accounting and General Services, Annual Financial Report of the State of Hawaii for the Fiscal Year Ended June 30, 1978 and records.

Table 148.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: ANNUAL AVERAGES, 1968 TO 1978

Year	Full- and part-time civilian employment								Armed forces ashore 1/
	Total	Federal					State	Counties	
		Total	Air Force	Army	Navy	Other			
1968	69,230	34,970	3,730	6,120	13,280	11,840	24,420	9,840	42,000
1969	71,130	34,690	4,030	6,440	13,050	11,170	26,090	10,350	41,000
1970	73,640	33,380	3,680	6,100	12,300	11,300	30,600	9,660	41,786
1971	78,220	32,920	3,430	6,020	12,070	11,400	34,920	10,380	39,798
1972	79,400	32,700	3,400	6,000	11,800	11,500	35,300	11,450	40,459
1973	78,050	31,650	3,300	6,050	11,250	11,050	35,250	11,150	44,621
1974	78,900	31,000	3,300	5,700	11,200	10,800	35,950	11,950	46,898
1975	82,000	30,550	3,300	5,300	11,100	10,850	38,700	12,750	45,989
1976	84,800	29,850	3,200	4,950	11,050	10,600	41,350	13,600	45,333
1977	85,700	29,300	3,050	4,750	11,200	10,250	42,650	13,800	44,512
1978	87,050	29,350	2,850	4,500	11,750	10,250	43,350	14,350	47,995

1/ Excludes Naval personnel aboard ships.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Estimates (annual, 1968-1969), State of Hawaii Labor Force Statistics (annual, 1970 and 1971), Labor Force Data Book (March 1978), and records; U.S. Bureau of Economic Analysis, unpublished data on armed forces.

Table 149.-- STATE CIVIL SERVICE: 1976 TO 1978

[Years ended June 30]

Subject	1976	1977	1978
Civil service employees 1/	16,048	16,318	16,577
Department of Education	3,794	3,925	3,882
Department of Health	3,519	3,987	4,088
Department of Social Services and Housing	1,507	1,570	1,688
Department of Transportation 2/	1,758	1,813	1,877
University of Hawaii	1,687	1,526	1,484
All others 1/	3,783	3,497	3,558
Separations	1,439	1,746	1,613
Promotions	975	957	813
Transfers, demotions, and returns after promotions	947	845	633
Classification actions processed	3,641	3,425	3,219
Applications received	31,021	29,111	26,419
Applicants examined	15,141	20,428	15,834
Applicants placed on eligible list	11,656	15,522	13,184
Vacancies filled through certification of eligibles or non-competitive actions	5,309	4,967	2,756

1/ Excludes Judiciary (633 employees in 1977) after 1977.

2/ Figure for 1977 has been corrected.

Source: Personnel Services Annual Report 1977-78, pp. 4, 5, and 7, as corrected.

Table 150.-- STATE SALARY SCHEDULES FOR SELECTED SR LEVELS: 1959 TO 1978

[In dollars per month]

Year (as of July 1) and bargaining unit 1/	Lowest SR 2/			SR-11		SR-21		SR-31	
	SR	First step 3/	Last step 4/	First step 3/	Last step 4/	First step 3/	Last step 4/	First step 3/	Last step 4/
1959	1	214	329	349	532	566	866	922	1,412
1960	1	225	329	366	532	594	866	968	1,412
1961	1	236	329	384	532	624	866	1,016	1,412
1962	1	236	349	384	566	624	922	1,016	1,502
1963	1	236	349	384	566	624	922	1,016	1,502
1964	1	236	349	384	566	624	922	1,016	1,502
1965	1	236	366	384	594	624	968	1,016	1,577
1966	2	267	414	414	643	675	1,046	1,098	1,705
1967	2	267	414	414	643	675	1,046	1,098	1,705
1968	2	267	414	414	643	675	1,046	1,098	1,705
1969	2	294	457	457	709	744	1,153	1,211	1,880
1970	4	357	555	504	781	820	1,272	1,336	2,073
1971	4	357	555	504	781	820	1,272	1,336	2,073
1972	4	357	555	504	781	820	1,272	1,336	2,073
1973: 3, 4, 9, 10, 11, 13	4	398	618	561	869	913	1,416	1,486	2,307
1974: 3, 9, 13	4	410	637	578	895	940	1,458	1,531	2,376
4, 10	4	426	661	600	930	977	1,515	1,590	2,468
11	4	432	671	609	943	991	1,536	1,612	2,503
1975: 3, 13	4	441	684	621	963	1,011	1,568	1,646	2,554
4	4	456	707	642	995	1,045	1,621	1,701	2,641
9	4	439	681	618	958	1,006	1,560	1,638	2,542
10	4	462	718	651	1,009	1,060	1,644	1,725	2,678
11	4	542	781	719	1,053	1,101	1,646	1,722	2,613
1976: 3, 4, 13 5/	4	533	788	722	1,080	1,131	1,715	1,797	2,751
9 5/	4	550	801	736	1,089	1,139	1,715	1,795	2,735
10 5/	4	539	799	731	1,094	1,146	1,739	1,821	2,788
11 5/	4	647	886	824	1,158	1,206	1,751	1,827	2,718

Footnotes and source on next page.

1/ Collective bargaining for public employees was authorized by a 1968 Constitutional amendment (State Constitution, Art. XII, Sec. 2) and implemented by S.L.H. 1970, Act 171. Employees on regular salary schedules were subsequently organized into six bargaining units, as follows: 3, white collar; 4, white collar supervisors; 9, nurses; 10, hospital and institutional; 11, firefighters; and 13, professional and scientific. Employees in the remaining bargaining units (blue collar, blue collar supervisors, teachers, educational officers, University faculty and non-faculty, and police) are not classified in the SR system.

2/ Lowest SR (salary range) level at which State employees were hired.

3/ Or equivalent, representing lowest step at which State employees were hired at the specified SR level.

4/ Last longevity step.

5/ Also applicable in 1977 and 1978. Employees who were employed on June 30, 1977 were granted a pay increase of $50 or an amount equivalent to a step increase, whichever was greater. Employees who were employed on June 30, 1978 were granted a pay raise equivalent to a step increase.

Source: Hawaii State Department of Personnel Services, data supplied July 31, 1979.

Section 9

SOCIAL INSURANCE AND WELFARE SERVICES

This section presents data related to governmental programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and maternal, child, and other welfare services. Also included here are selected statistics on private charity and welfare programs.

Total public welfare costs reached $230 million in fiscal 1978, compared with $30 million a decade earlier. About 59 percent of the 1978 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1978 was 75,485, or 8.5 percent of the resident population of the State at the beginning of the year. Almost two-thirds of all public assistance payments and one-half of all recipient cases were accounted for by aid to families with dependent children. About 4.4 percent of all welfare cases early in 1979 were recent migrants to Hawaii. The average monthly payment per case for public assistance was $322, almost twice as much as in 1970. Participation in the food stamp program included 34,500 households and 93,300 persons. Among workers receiving unemployment compensation in 1978, weekly benefits averaged $91. Almost 102,000 Hawaii residents were receiving Social Security benefits as of the end of 1977, and about 63,000 were enrolled for Medicare. There were also 10,772 State and County government pensioners in 1978, with annual benefits in excess of $61 million. The Aloha United Way spent $6.95 million on Oahu during 1978.

Major data sources include reports and records of the U.S. Department of Health, Education, and Welfare, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 11 of the Statistical Abstract of the United States: 1978 presents comparable Mainland data.

Table 151.-- SOCIAL WELFARE COSTS: 1968 TO 1978

[In thousands of dollars. For years ended June 30.]

Year ended June 30	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1968	29,565	12,941	16,624	2,951	10,297	16,318	-
1969	35,706	15,167	20,539	3,272	12,948	19,486	-
1970	46,566	20,396	26,170	3,730	16,421	26,415	-
1971	67,645	27,769	39,876	5,483	23,926	38,236	-
1972	94,212	38,143	56,069	6,324	34,278	53,610	-
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231

Source: Hawaii State Department of Social Services and Housing, records.

Table 152.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1968 TO 1978, MONTHLY AVERAGES

Year ended June 30	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1968	10,043	26,337	961	-	-	137.39	52.39
1969	11,013	28,845	926	2,492	2,700	147.86	56.45
1970	12,940	34,320	900	2,942	3,370	170.17	64.14
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	26,400	14,381	15,572	321.63	121.75

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 153.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1977 AND 1978

[Years ended June 30]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1977	1978	1977	1978	1977	1978
All programs	114,965	127,375	34,821	36,792	274	289
Old age assistance 1/	7,748	8,230	5,364	5,250	120	131
Aid to the blind 1/	283	299	129	135	183	175
Aid to disabled 1/	8,794	9,894	4,134	4,536	177	162
Aid to families with dependent Children 2/	73,901	81,905	17,020	18,117	362	376
Child welfare foster care	1,223	1,147	613	615	166	155
General assistance	23,016	25,900	7,561	8,139	254	265

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 154.-- FOOD STAMPS: 1977 AND 1978

[Years ended June 30]

Subject	1977	1978
Participation in food stamp program (monthly averages)		
Households, total participating	37,172	34,537
Public assistance recipients	23,244	23,490
Other participants 1/	13,927	11,047
Persons, total participating	108,353	93,261
Public assistance recipients	67,026	64,971
Other participants 1/	41,327	28,290
Food stamp purchase amount and bonus ($1,000)		
Total value of food stamps to recipients	64,914	65,596
Purchase (amount paid for by recipients)	30,462	31,605
Bonus or free coupons given to recipients	34,453	33,991

1/ Not receiving public assistance (food stamp only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 155.-- MIGRATION STATUS OF PUBLIC WELFARE RECIPIENTS: MARCH 1979

[This table reflects the March 1979 status of in-migrants receiving financial assistance, medicaid and food stamps. Within the financial assistance category are 1,828 children living with non-needy caretakers and within the medicaid category are 2,299 converted aged, blind and disabled cases. These were not included last year.]

Place of birth or last previous residence	Number of welfare cases 1/				Amount of monthly financial assistance ($1,000)	
	Receiving financial assistance					
	Total	In Hawaii under 1 year	Medicaid	Food stamps only	All recipients	In Hawaii under 1 year
Total	26,366	-	15,366	10,257	8,440	322
Born in Hawaii	15,394	-	6,571	4,529	5,109	-
Born elsewhere	8,975	1,155	6,577	5,515	2,778	322
Mainland	5,259	728	1,462	3,373	1,664	232
Samoa	1,388	141	321	254	518	46
Philippines	872	16	2,626	1,034	168	2
Orient 2/	476	13	1,858	607	117	2
Southeast Asia 3/ ...	569	220	51	19	183	30
Other 4/	411	37	259	228	128	10
Unknown	1,997	-	2,218	213	553	-

1/ The number of individuals (rather than cases) was 70,674 receiving financial assistance, 20,662 receiving medical assistance only, and 27,644 enrolled in the food stamp only program. Data include Aid to Families with Dependent Children, Unemployed Father, General Assistance, and Aged, Blind, Disabled Supplement, but exclude foster care.

2/ China, Japan, and Korea.

3/ Vietnam, Cambodia, and Laos.

4/ South Pacific Islands, Canada, Europe, etc.

Source: Hawaii State Department of Social Services and Housing, records.

Table 156.-- SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1970 TO 1977

Year	Number of recipients at end of year	Monthly amount payable at end of year		Total amount paid during year 1/ ($1,000)
		Total ($1,000)	Per recipient (dollars)	
1970	66,488	6,437	96.81	77,593
1971	70,912	7,666	108.11	92,440
1972	76,413	10,141	132.71	107,125
1973	82,224	11,202	136.24	134,198
1974	87,141	13,433	154.15	155,178
1975	91,731	15,629	170.38	181,775
1976	96,230	17,894	185.95	210,423
1977	101,911	20,669	202.81	241,814

1/ Includes also retroactive benefits and lump-sum death payments.

Source: U.S. Department of Health, Education, and Welfare, Social Security Administration, Division of OASDI Statistics, Office of Research and Statistics, records.

Table 157.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1977

Coverage	Enrollment, July 1, 1977		Reimbursement, 1977 ($1,000)	
	Age 65 and over	Disabled and renal disease	Age 65 and over	Disabled and renal disease
Hospital and/or medical	63,450	6,301	45,258	7,434
Hospital only	61,859	6,301	30,711	4,012
Medical only	61,317	5,688	14,547	3,422

Source: U.S. Department of Health, Education, and Welfare, Social Security Administration, Division of OASDI Statistics, Office of Research and Statistics, records.

Table 158.-- UNEMPLOYMENT INSURANCE: 1970 TO 1979

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)	Gross benefits 1/ ($1,000)	Weekly benefits 3/		Average benefit duration 2/ (weeks)	Exhaustion rate 3/ (percent)
	Total	Percent of total employment	Total	Percent of total unemployment			Maximum (dollars)	Average (dollars)		
1970 ...	302,388	91	7,369	46	131.87	20,655	79	58.15	15.0	21.3
1971 ...	309,901	91	12,315	53	135.38	35,390	86	63.38	18.3	33.8
1972 ...	321,751	92	14,485	54	141.92	37,865	90	65.57	19.9	41.7
1973 ...	335,615	92	12,107	46	151.17	37,014	93	67.57	16.0	30.2
1974 ...	342,615	91	13,900	47	162.25	45,208	98	71.86	16.2	35.3
1975 ...	350,481	92	18,779	59	174.42	58,942	104	76.34	16.4	34.1
1976 ...	357,770	92	21,480	55	183.87	71,574	112	83.84	18.9	48.4
1977 ...	367,518	93	16,438	55	192.29	55,823	120	88.68	16.4	36.0
1978 ...	(NA)	(NA)	11,287	(NA)	(NA)	45,653	126	91.25	16.2	34.1
1979 ...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	134	(NA)	(NA)	(NA)

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (April 1979).

Table 159.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1970 TO 1978

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1970	38,912	5,641	388,561,206	22,822,059	216	337,002
1971	42,262	6,069	435,463,758	25,665,295	231	418,754
1972	43,736	6,667	489,436,678	31,359,208	247	478,522
1973	44,471	7,343	545,465,277	37,601,889	262	425,864
1974	43,371	7,971	611,675,571	41,130,325	271	487,504
1975	44,363	8,600	683,305,413	46,782,477	297	563,513
1976	45,256	9,263	773,878,470	53,625,776	313	631,714
1977	46,371	10,099	886,596,717	59,158,256	330	725,621
1978	47,273	10,772	1,007,744,828	61,211,832	347	775,393

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, 53rd Annual Report, June 30, 1978, pp. 19 and 31, and records.

Table 160.-- ALOHA UNITED WAY REVENUE AND EXPENSES, FOR OAHU: 1977 AND 1978

[In dollars]

Calendar year	Public support and revenue		Allocations and expenses	
	Total	Campaign contributions 1/	Total	Allocation to agencies
1977	6,617,452	6,487,420	6,514,799	5,950,253
1978	7,149,078	6,893,082	6,953,222	6,405,377

1/ Less allowance for uncollectibles.
Source: Aloha United Way Annual Report for 1977 and 1978.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces.

There were approximately 58,100 officers and enlisted men (including 12,100 aboard ships homeported in Hawaii) and 61,100 military dependents in the Islands as of July 1, 1978. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for about two-fifths of the current total. More than 10,700 Hawaii residents were in the armed forces worldwide in 1978. The importance of national defense in Hawaii can be further measured by total expenditures (1.16 billion), military prime contract awards ($224 million), civilian employment (19,000), veterans in civil life (93,000), military personnel receiving retired or retainer pay (8,700 men, receiving $80 million), federally-connected pupils in public schools (40,500), military housing (18,500 units), and land controlled by the armed forces (223,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on *Military Personnel and Dependents in Hawaii*. Other published sources include reports of the U.S. Bureau of the Census, the Administrator of Veterans Affairs, the U.S. Department of Defense, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, the Hawaii State Census Statistical Areas Committee, and the Honolulu Department of Housing and Community Development. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1977, for example, the number of armed forces in Hawaii was reported as 53,902 by DOD, 56,486 by the Bureau of the Census, 44,000 by the Bureau of Economic Analysis (which excludes ships crews), and 58,466 by the local commanding officers reporting to DPED. *Historical Statistics of Hawaii*, Section 26, includes series dating back to 1795. Section 12 of the *Statistical Abstract of the United States: 1978* presents data on national defense and veterans affairs for other States and the entire nation.

Table 161.-- ARMED FORCES AND DEPENDENTS: 1970 TO 1978

[Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table.]

Year	Active-duty military personnel in Hawaii, June 30				Dependents located in Hawaii, March 31 1/
	Total	Shore-based	Afloat and mobile		
			Temporarily shore-based	Other 2/	
1970	50,526	33,337	7,102	10,087	57,382
1971	41,877	28,352	5,048	8,477	57,818
1972	47,799	36,694	2,724	8,381	61,713
1973	56,184	45,315	2,188	8,681	60,298
1974	52,309	41,913	1,889	8,507	61,148
1975	56,426	47,810		8,616	64,082
1976	53,783	44,987		8,796	61,368
1977	51,902	43,635		8,267	57,920
1978	55,692	43,850		11,842	59,327

1/ Data include dependents of Hawaii residents stationed out of State, if these dependents remain in Hawaii.

2/ Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington Headquarters Services, Information Operations and Reports, records.

Table 162.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: JULY 1, 1978

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Department of Defense and Bureau of the Census, reported elsewhere in this volume.]

Year, island, and service	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families in Hawaii
		Total	Ashore	Aboard ship		
Total	119,200	58,106	46,001	12,105	61,094	25,400
By island:						
Oahu	118,449	57,688	45,602	12,086	60,761	25,247
French Frigate Shoals	10	10	10	-	-	-
Kure Atoll	25	25	25	-	-	-
Hawaii	330	192	182	10	138	55
Kauai	313	168	168	-	145	81
Maui	73	23	14	9	50	17
By service:						
Air Force	16,070	6,040	6,040	-	10,030	4,179
Army	38,551	18,203	18,203	-	20,348	8,018
Coast Guard	1,950	836	617	219	1,114	472
Marine Corps	17,548	9,789	9,789	-	7,759	3,911
Navy	45,081	23,238	11,352	11,886	21,843	8,820

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1978 (Statistical Report 126, September 29, 1978), table 2.

Table 163.-- DEFENSE EXPENDITURES, BY CATEGORY AND SERVICE: 1978

[In thousands of dollars.]

Expenditure category	All services	Air Force	Army	Navy and Marines	Coast Guard
All categories	1,155,517	117,483	434,060	582,338	21,636
Military payroll	465,449	57,268	204,706	186,865	16,610
Civilian payroll	354,530	25,912	79,841	245,532	3,245
Supplies, equipment, services	335,538	34,303	149,513	149,941	1,781

Source: Quarterly reports of armed forces.

Table 164.-- MILITARY PRIME CONTRACT AWARDS OF $10,000 OR MORE, BY SERVICE: 1976 AND 1977

[In thousands of dollars. For fiscal years ended June 30, 1976 and September 30, 1977.]

Year	Total	Army	Navy	Air Force	Defense Logistics Agency 1/
1976	363,358	145,639	53,717	16,734	147,268
1977	223,805	46,385	77,298	21,003	71,242

1/ Defense Supply Agency before 1977.

Source: U.S. Department of Defense, Directorate for Information Operations and Reports, Prime Contract Awards by State for 1951-1976 and Fiscal Year 1977.

Table 165 .-- NATIONAL GUARD STRENGTH: 1970 TO 1978

[As of June 30]

Year	Total	Air	Army
1970	3,929	1,604	2,325
1971	4,510	1,569	2,941
1972	4,803	1,574	3,229
1973	4,822	1,539	3,283
1974	4,859	1,493	3,366
1975	5,062	1,554	3,508
1976	5,090	1,626	3,464
1977	4,902	1,709	3,193
1978	5,249	1,808	3,441

Source: Hawaii State Department of Defense, Annual Report (annual).

Table 166.-- MISCELLANEOUS STATISTICS ON THE ARMED FORCES: 1970 TO 1978

Year	Hawaii residents on active duty worldwide, June 30	Federally-connected pupils in public schools, Fall		Civilian defense employment, ann. average 1/	Housing units operated by the armed forces, July 1 2/	
		Total	Military dependents		Owned by armed forces	Leased from private owners
1970 ..	15,331	51,435	27,763	22,080	13,627	798
1971 ..	13,600	51,143	27,962	21,520	14,085	787
1972 ..	11,600	47,928	26,450	21,200	14,031	844
1973 ..	10,200	45,144	25,038	20,600	14,507	837
1974 ..	10,810	43,848	24,066	20,200	15,860	710
1975 ..	10,640	45,746	22,246	19,700	15,814	487
1976 ..	10,600	44,393	21,692	19,200	16,862	294
1977 ..	10,640	43,648	21,167	19,000	17,342	112
1978 ..	10,715	43,460	21,423	19,100	18,533	-

NA Not available.

1/ Air Force, Army, and Navy.

2/ Data for 1970 refer to April 1.

Source: Office of the Assistant Secretary of Defense; Hawaii State Department of Education, Report on Federally Connected Pupils, Hawaii Public Schools (annual); Hawaii State Department of Labor and Industrial Relations, records; Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii (annual).

Table 167.-- VETERANS IN CIVIL LIFE: 1978 AND 1979

[In thousands]

Period of service	March 31, 1978	March 31, 1979
Total veterans 1/	93	94
War veterans 1/	80	79
Vietnam era	33	33
Korean conflict	21	20
World War II	31	30
World War I	1	1
Post-Vietnam era only 2/	1	2
Between Korea and Vietnam only	12	13

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

Source: Veterans Administration, Veteran Population by Age, State of Residence and Regional Office, by Period of Service (semi-annual report).

Table 168.-- RETIRED OR RETAINER PAY RECEIVED BY MILITARY PERSONNEL: 1970 TO 1978

[Fiscal years ended June 30, 1970-1976, and September 30, 1977 forward]

Year	Number of recipients	Amount received (annual rate)	
		Total ($1,000)	Per recipient (dollars)
1970	3,399	14,634	4,305
1971	3,819	18,270	4,784
1972	5,891	28,644	4,862
1973	6,403	34,285	5,355
1974	6,895	42,006	6,092
1975	7,205	51,041	7,084
1976	7,780	62,567	8,042
1977	8,330	71,354	8,566
1978	8,673	79,925	9,215
BY SERVICE: 1978			
Army	3,734	32,583	8,726
Navy	2,244	20,594	9,177
Marine Corps	551	5,404	9,808
Air Force	2,144	21,342	9,954

Source: Office of the Secretary of Defense, records.

Section 11

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by sex, occupation, and industry, work disability, wage rates, payrolls, hours, turnover, industrial safety, and unionization.

The civilian labor force averaged 398,000 in 1978; of this total, 367,000 persons were employed and 31,000 were unemployed and seeking work. The civilian jobcount rose from 298,000 in 1968 to 414,000 a decade later, an increase of 39 percent. (The jobcount differs from employment because the latter counts multiple jobholders — "moonlighters" — only once.) The unemployment rate averaged 7.8 percent in 1978, with island levels ranging from 6.9 to 11.6 percent. In 1976, 57.9 percent of all females 16 years old and over were in the civilian labor force -- the third highest ratio in the nation. By occupation, one out of six civilian workers is classified as professional or technical. Activities with especially large numbers of employees include government (87,000 in 1978, about 34 percent of them in federal jobs), services (89,000), and retail trade (79,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $10,903 in 1977, almost twice the 1967 average. Average weekly hours in 1978 ranged from 31.4 (for retail trade) to 44.4 (for communications and utilities). Labor union membership was estimated at 140,000 in 1976. Work stoppages in 1978 involved 1,800 workers.

Analyzing labor force trends is greatly complicated by recent shifts in sources and estimating methods. Prior to 1970, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law; workers holding more than one job were accordingly counted more than once. From 1970 to 1975, the same source was used, but the totals were adjusted to exclude the double-counting throught to be present. Then, beginning in 1976, the labor force estimates were based on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were later revised for greater comparability with the 1976-1978 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's 1976 Survey of Income and Education, various studies by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, the OEO 1975 Census Update surveys, and annual surveys by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the Statistical Abstract of the United States: 1978.

Table 169.— EMPLOYMENT STATUS, BY SEX: SPRING 1976

[Excludes inmates of institutions and members of the armed forces in military barracks or aboard ships. Because of these omissions, the 1976 data are not comparable with results of the 1970 census.]

Sex	Population, 16 years and over 1/	Civilian labor force		Employed	Unemployed: percent 2/
		Number	Percent 3/		
Both sexes	575,000	392,000	68.1	351,000	10.3
Male	276,000	219,000	79.3	196,000	10.2
Female	299,000	173,000	57.9	155,000	10.5

1/ Includes armed forces living off post or with their families on post.

2/ Of the civilian labor force.

3/ Of persons 16 years old and over. The percent for females was exceeded only by those reported for Alaska and the District of Columbia.

Source: U.S. Bureau of the Census, "Demographic, Social, and Economic Profile of States: Spring 1976," Current Population Reports, Population Characteristics, Series P-20, No. 334, January 1979, table 31.

Table 170.-- EMPLOYMENT STATUS: ANNUAL AVERAGES, 1970 TO 1978

Year and area	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	383,900	352,050	31,850	8.3
1976	397,000	358,000	39,000	9.8
1977	403,000	373,000	30,000	7.4
1978	398,000	367,000	31,000	7.8
ISLANDS: 1977				
Oahu	317,850	294,650	23,200	7.3
Hawaii	36,400	33,050	3,350	9.2
Kauai and Niihau	17,850	16,650	1,150	6.5
Maui County	30,900	28,650	2,300	7.4
Lanai	1,650	1,550	150	8.1
Maui	26,150	24,300	1,850	7.0
Molokai	3,100	2,800	300	10.2
ISLANDS: 1978				
Oahu	313,900	290,100	23,800	7.6
Hawaii	35,550	31,950	3,600	10.2
Kauai and Niihau	17,450	16,250	1,200	6.9
Maui County	31,100	28,700	2,350	7.6
Lanai	1,700	1,550	200	10.8
Maui	26,150	24,350	1,800	6.9
Molokai	3,200	2,850	350	11.6

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 1-16, as revised.

Table 171.-- ETHNIC STOCK OF EMPLOYED AND UNEMPLOYED PERSONS, FOR SPECIFIED AREAS: 1975

[Not available for Kauai County.]

Ethnic stock	Oahu		Hawaii County		Maui County	
	Employed	Unemployed	Employed	Unemployed	Employed	Unemployed
Total	248,755	28,532	26,095	2,668	24,648	2,650
Caucasian, exc. Portuguese .	56,588	8,284	4,019	610	5,856	812
Japanese	88,438	5,923	10,228	675	7,665	501
Filipino	26,363	3,190	2,432	151	3,702	317
Hawaiian	2,317	257	540	60	505	38
Part Hawaiian	28,671	5,093	4,539	610	3,876	672
Chinese	18,060	1,104	381	8	230	-
Korean	3,813	604	85	37	100	-
Portuguese	7,108	811	2,042	214	1,061	80
Puerto Rican	956	151	211	35	80	9
Samoan	1,271	541	38	22	38	13
Black	1,432	418	21	20	57	-
Mixed, exc. Part Hawaiian ..	11,335	1,658	1,329	218	1,295	171
Other	2,405	497	150	8	174	37
Not available	-	-	79	-	8	-

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Information for Affirmative Action Programs (April 1978), tables 7 and 8.

Table 172.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1968 TO 1978

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/			
					Total	Maui	Lanai	Molokai
1968 ...	297,900	240,250	25,990	12,310	19,350	16,460	2,890	
1969 ...	317,880	258,470	26,590	12,760	20,070	17,350	2,720	
1970 ...	331,580	270,310	28,410	12,540	20,320	17,410	2,920	
1971 ...	339,070	276,260	29,000	12,960	20,840	18,090	2,730	
1972 ...	349,950	285,900	29,450	13,050	21,550	18,900	900	1,700
1973 ...	365,050	298,900	30,150	13,600	22,250	19,800	900	1,550
1974 ...	374,650	306,350	31,000	13,600	23,650	21,150	900	1,600
1975 ...	380,900	308,550	32,350	14,550	25,400	22,950	1,000	1,450
1976 ...	387,000	312,100	33,000	15,250	26,600	24,100	950	1,500
1977 ...	398,600	319,900	34,100	15,900	28,450	23,000	350	1,350
1978 ...	413,550	331,300	34,850	16,650	30,700	24,950	350	1,350

1/ Jobcounts for agriculture (wage and salary, self-employed, unpaid family workers)and domestics not included in island breakdown for Maui County for 1977 and 1978.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9-56, as revised; Labor Force Statistics, Bull. No. 70-F and 72-F; printouts for 1968-1969.

Table 173.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1972 TO 1978

Industry	1972	1975	1976	1977	1978
Nonagriculture, wage and salary ..	312,700	342,800	349,200	359,400	373,600
Contract construction	23,600	26,350	21,400	19,750	20,400
Manufacturing	24,900	23,650	23,400	23,200	23,550
Durable goods	4,550	4,800	4,550	4,600	4,700
Nondurable goods	20,350	18,850	18,800	18,600	18,850
Food processing	12,550	11,250	11,300	11,250	11,750
Sugar	4,450	4,450	4,350	3,950	4,150
Pineapple	4,250	2,800	2,850	3,050	3,350
Other	3,800	4,000	4,050	4,250	4,350
Textile, apparel	3,550	3,400	3,300	3,250	3,250
Printing, publishing	2,800	2,650	2,700	2,700	2,700
Other nondurables	1,450	1,550	1,550	1,350	1,250
Transp., commun., utilities ..	24,800	26,400	27,100	28,200	28,550
Transportation	14,800	17,450	18,200	19,200	19,700
Communication	7,350	6,400	6,400	6,500	6,350
Utilities	2,650	2,600	2,500	2,500	2,500
Trade	75,250	83,750	87,900	92,200	96,150
Wholesale	15,150	15,850	16,050	16,600	17,000
Retail	60,100	67,900	71,800	75,550	79,150
Finance, insur., real estate .	20,200	24,250	24,700	25,650	28,500
Services and miscellaneous ...	64,550	76,400	79,900	84,750	89,350
Hotels	17,600	19,950	20,900	22,100	23,050
Other services, misc.	47,000	56,500	59,000	62,650	66,300
Government	79,400	82,000	84,800	85,700	87,050
Federal	32,700	30,550	29,850	29,300	29,350
Air Force	3,400	3,300	3,200	3,050	2,850
Army	6,000	5,300	4,950	4,750	4,500
Navy	11,800	11,100	11,050	11,200	11,750
Other	11,500	10,850	10,600	10,250	10,250
State	35,300	38,700	41,350	42,650	43,350
Local	11,450	12,750	13,600	13,800	14,350
Agriculture, wage and salary	11,200	11,050	11,050	11,300	11,600
Sugar	5,550	5,200	5,050	5,000	4,950
Pineapple	2,950	2,300	2,200	2,400	2,550
Other	2,700	3,550	3,800	3,900	4,100
Nonagric., self-employed 1/	21,300	22,050	22,050	23,000	23,500
Agric., self-employed 2/	4,600	4,800	4,450	4,400	4,700
Labor disputes	150	200	250	500	150

Footnotes and source follow next table.

Table 136 -- JOBCOUNT, BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE: 1978

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Contract construction	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Manufacturing	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Durable goods	[illegible]	[illegible]	[illegible]	(Z)	[illegible]
Nondurable goods	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Food processing	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Textile, apparel	[illegible]	[illegible]	(NA)	(NA)	(NA)
Printing, publishing	[illegible]	[illegible]	(NA)	(NA)	(NA)
Other nondurables	[illegible]	[illegible]	(NA)	(NA)	(NA)
Transp., commun., utilities	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Transportation	[illegible]	[illegible]	(NA)	(NA)	(NA)
Communication	[illegible]	[illegible]	(NA)	(NA)	(NA)
Utilities	[illegible]	[illegible]	(NA)	(NA)	(NA)
Trade	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Wholesale	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Retail	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Finance, insur., real estate	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Services and miscellaneous	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hotels	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Other services, misc.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Government	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Federal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
State	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Local	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Agriculture, wage and salary	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sugar	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pineapple	[illegible]	[illegible]	-	-	[illegible]
Other	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nonagric., self-employed 1/	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Agric., self-employed 2/	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Labor disputes	[illegible]	[illegible]	(Z)	(Z)	(Z)

Z Fewer than 50.
NA Not shown separately.
1/ Includes unpaid family workers and domestics.
2/ Includes unpaid family workers.
Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1979), pp. 17-74, as revised.

Table 175.-- OCCUPATION, BY SEX: 1977

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 17,295 persons.]

Occupation	Both sexes	Male	Female
Employed civilians, 16 and over ...	361,050	201,588	159,462
Professional and technical workers	55,827	30,851	24,976
Farmers and farm managers	2,161	1,599	562
Managers, officials, proprietors	50,107	36,288	13,819
Clerical workers	73,257	16,374	56,883
Sales workers	26,948	12,111	14,838
Craftsmen and foremen	40,877	38,743	2,133
Operatives	31,952	22,705	9,247
Private household workers	960	-	960
Service workers	51,802	22,145	29,656
Farm laborers and foremen	6,083	4,358	1,725
Laborers, except farm	12,982	11,766	1,216
Occupation not reported	8,094	4,647	3,448

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1977 (Population Report, No. 11, January 1979), p. 10.

Table 176 -- EMPLOYMENT AND WAGES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1967 TO 1977

Year	Number of employers, Dec.	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1967	12,136	253,202	1,436,992	5,675
1968	12,557	264,646	1,623,711	6,135
1969	13,183	284,782	1,958,177	6,876
1970	13,593	302,259	2,243,951	7,424
1971	13,904	310,658	2,384,785	7,677
1972	14,563	321,352	2,569,893	7,997
1973	15,346	336,026	2,849,172	8,479
1974	15,914	342,683	3,114,073	9,087
1975	16,558	349,887	3,417,547	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
EXCLUDING GOVERNMENT 1/				
1976	17,124	271,406	2,601,789	9,586
1977	17,825	280,836	2,816,521	10,029
NON-AGRICULTURAL 1/				
1976	16,567	260,297	2,493,750	9,580
1977	17,267	269,554	2,706,712	10,041

1/ These data are similar (but not exactly comparable) to those for 1966-1976 presented in The State of Hawaii Data Book 1978, table 193, p. 181.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 177.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1977

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	17,831	366,555	3,996,746	10,903
Government	6	85,719	1,180,225	13,768
Federal	1	29,276	492,845	16,834
State	1	42,667	517,697	12,133
County	4	13,776	169,682	12,317
Private	17,825	280,836	2,816,521	10,029
Agriculture, forestry, fisheries	558	11,282	109,809	9,733
Sugar	17	5,111	57,624	11,274
Pineapple	3	2,459	23,021	9,362
Other	538	3,712	29,165	7,857
Mining and contract construction	1,650	19,742	326,561	16,541
Manufacturing	706	23,577	260,770	11,060
Sugar mills	15	3,768	47,768	12,677
Pineapple canning	3	3,537	28,708	8,116
Other food processing	167	4,362	45,101	10,340
Other manufacturing	521	11,910	139,193	19,687
Transportation	692	19,177	259,811	13,548
Communications	68	6,512	100,585	15,446
Utilities	46	2,499	39,543	15,823
Wholesale trade: Durable	806	9,037	120,948	13,384
Non-durable	825	7,877	89,601	11,375
Retail trade	4,343	75,635	515,921	6,821
Eating and drinking places	1,391	28,792	143,999	5,001
Other retail trade	2,952	46,843	371,922	7,940
Finance, insurance, real estate	2,124	23,376	263,992	12,293
Services	5,950	81,760	725,955	8,879
Hotels, rooming houses	186	22,313	175,602	7,870
Medical and other health services	1,104	14,200	176,181	12,407
Other services	4,660	45,247	374,172	8,270
Nonclassifiable establishments	57	362	3,025	8,355

Source follows next table.

Table 178.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS: 1977

Island or county	Including government		Excluding government			
	Number of employers, Dec.	Average employment	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
State total ..	17,831	366,555	17,825	280,836	2,816,521	10,029
Oahu	13,890	299,272	13,887	226,263	2,310,456	10,211
Hawaii County	1,755	27,977	1,752	21,922	205,867	9,391
Maui County	1,459	25,228	1,456	21,192	198,399	9,362
Kauai County	733	14,078	730	11,459	101,800	8,884

Source: Hawaii State Department of Labor and Industrial Relations, _1977 Employment and Payrolls in Hawaii_ (September 1978).

Table 179.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1978

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	18,844	384,538	4,461,003	11,601
Government	6	87,972	1,257,268	14,292
Federal	1	30,322	540,215	17,816
State	1	43,395	538,699	12,414
County	4	14,255	178,354	12,512
Private	18,838	296,566	3,203,734	10,803
Agriculture, forestry, fisheries	410	11,141	118,879	10,670
Mining and contract construction	1,775	20,672	368,519	17,827
Manufacturing	725	23,935	285,478	11,927
Sugar mills	15	3,746	52,861	14,111
Pineapple canning	3	3,654	30,798	8,428
Other food processing	164	4,549	51,553	11,333
Other manufacturing	868	11,986	150,260	12,536
Transportation	734	19,961	297,420	14,900
Communications	69	6,362	112,029	17,610
Utilities	42	2,498	43,242	17,311
Wholesale trade: Durable	798	8,363	123,306	14,745
Non-durable	877	8,840	103,852	11,748
Retail trade	4,500	80,805	589,228	7,292
Eating and drinking places	1,478	31,793	169,470	5,330
Other retail trade	3,022	49,012	419,758	8,564
Finance, insurance, real estate	2,451	26,647	319,496	11,990
Services	6,425	87,158	840,487	9,643
Hotels, rooming houses	175	22,548	195,861	8,686
Medical and other health services	1,206	15,567	210,039	13,492
Other services	5,044	49,043	434,587	8,861
Nonclassifiable establishments	32	184	1,799	9,791

Source: Hawaii State Department of Labor and Industrial Relations, ES-202 tabulations (quarterly).

Table 180.— AVERAGE ANNUAL WAGE AND SALARY PAYMENTS PER WORKER, BY CLASS OF WORKER: 1970, 1977, AND 1978

Class of worker	1970	1977	1978	Percent change 1970 -1978	Percent change 1977 -1978
CURRENT DOLLARS					
Total	7,424	10,903	11,601	56.3	6.4
Federal	9,752	16,834	17,816	82.7	5.8
State	8,759	12,133	12,414	41.7	2.3
County	8,726	12,317	12,512	43.4	1.6
Private	6,849	10,029	10,803	57.7	7.7
CONSTANT (1978) DOLLARS					
Total	13,425	12,061	11,601	-13.6	-3.8
Federal	17,635	18,622	17,816	1.0	-4.3
State	15,839	13,421	12,414	-21.6	-7.5
County	15,779	13,625	12,512	-20.7	-8.2
Private	12,385	11,094	10,803	-12.8	-2.6
PERCENT OF FAMILY BUDGET					
Total	58.1	52.2	50.2	-13.6	-3.8
Federal	76.3	80.6	77.1	1.0	-4.3
State	68.6	58.1	53.7	-21.7	-7.6
County	68.3	59.0	54.2	-20.6	-8.1
Private	53.6	48.0	46.8	-12.7	-2.5
Family budget 1/	12,776	20,883	23,099	80.8	10.6
Index (1978 = 100)..	55.3	90.4	100.0	...	...

1/ Intermediate budget for an urban family of four persons on Oahu, as estimated by the U.S. Bureau of Labor Statistics. Includes consumption, gifts and contributions, social security and disability payments, and personal income taxes.

Source: Average wages from Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and ES-202 tabulations (quarterly). Family budgets from U.S. Bureau of Labor Statistics, annual releases.

Table 181.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1968 TO 1978

Industry 1/	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1968	1977	1978	1968	1977	1978	1968	1977	1978
Construction	189.74	352.36	385.40	38.1	35.7	36.6	4.98	9.87	10.53
Manufacturing	111.84	209.38	227.74	39.8	38.0	38.6	2.81	5.51	5.90
Food processing	98.89	188.33	204.72	39.4	38.2	38.7	2.51	4.93	5.29
Textile and apparel	74.87	111.78	124.69	38.2	35.6	37.0	1.96	3.14	3.37
Printing and publishing	145.24	268.76	289.88	36.4	34.5	34.8	3.99	7.79	8.33
Communication, utilities	158.92	311.28	352.54	43.9	42.7	44.4	3.62	7.29	7.94
Trade 2/	85.50	147.74	158.07	34.2	33.2	33.0	2.50	4.45	4.79
Wholesale	111.74	207.59	219.84	38.8	38.3	38.3	2.88	5.42	5.74
Retail 2/	73.83	128.93	138.47	32.1	31.6	31.4	2.30	4.08	4.41
Finance, insur., real estate ..	100.65	164.11	166.48	...	...	...	...	...	...
Hotels	75.48	137.38	155.20	33.4	31.8	32.4	2.26	4.32	4.79
Laundries	74.99	110.66	129.60	40.1	34.8	36.1	1.87	3.18	3.59

1/ Data for 1968 based on 1967 Standard Industrial Classification (SIC) code; 1977 and 1978 based on 1972 SIC.

2/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 79, 82, and 85; Labor Area News, March 1979; and records.

Table 182.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS: 1973 AND 1978

[In dollars]

Job classification	Total employment 1/		Private employment, by island: 1978				
	1973	1978	State average	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES							
Junior typist	459	660	658	...	653	...	709
Clerk-stenographer	606	821	809	...	785	1,181	940
Secretary	647	970	884	926	881	905	889
Accountant (entry level) .	746	1,009	1,014	...	1,011	...	...
Drafting technician	671	...	...	...	...	...	...
Civil engineer (entry level)	841	1,000	...	...	...	...	...
Hospital attendant	448	675	674	673	679	619	...
Staff nurse	809	1,164	1,141	1,084	1,142	1,135	...
HOURLY RATES							
Housekeeper	...	3.876	3.876	3.892	3.883	3.824	3.878
Cook, general	3.895	5.857	5.793	6.076	5.660	5.920	6.429
Waiter/waitress	1.992	2.676	2.670	2.700	2.665	2.662	2.698
Laborer (light)	2.862	4.619	4.719	4.552	5.017	4.582	4.177
Carpenter (maintenance) ..	4.870	7.538	6.588	6.665	6.775	6.273	5.970
Electrician (maintenance).	5.314	9.155	7.539	6.385	7.971	6.773	7.179
Automotive mechanic	4.863	7.267	7.090	6.498	7.648	6.514	6.572
Truck driver (1 1/2-5 tons)	4.066	6.056	5.521	4.988	5.904	5.004	4.975

1/ Statewide average for both private and government employment.

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 183.-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1981

[In dollars]

Effective date	Oahu	Other islands
1942: April 1 1/	0.25	0.20
1943: July 1	0.30	0.25
1945: July 1	0.40	0.40
1953: July 1	0.65	0.55
1955: July 1	0.75	0.65
1957: July 1	0.90	0.85
1958: July 1	1.00	1.00
1962: July 1	1.15	1.15
1964: January 1	1.25	1.25
1969: July 1	1.40	1.40
1970: July 1	1.60	1.60
1974: July 1	2.00	2.00
1975: July 1	2.40	2.40
1978: July 1	2.65	2.65
1979: July 1	2.90	2.90
1980: July 1	3.10	3.10
1981: July 1	3.35	3.35

1/ Inception of minimum wage law.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 184.-- LABOR TURNOVER RATES FOR MANUFACTURING (EXCEPT PINEAPPLE CANNING): 1968 TO 1978

Year	Annual accession rates 1/		Annual separation rates 2/		
	Total	New hires	Total	Quits	Layoffs
1968	3.4	2.4	3.0	1.5	0.4
1969	3.5	2.9	3.1	1.9	0.2
1970	2.8	2.1	3.2	1.6	0.7
1971	2.2	1.5	2.3	1.1	0.5
1972 3/ ..	2.2	1.8	2.4	1.2	0.4
1973	2.5	2.1	2.4	1.4	0.3
1974	2.3	1.8	2.3	1.2	0.5
1975	2.2	1.6	2.2	1.0	0.6
1976	2.4	1.3	2.5	0.8	1.0
1977	2.5	1.5	2.4	0.9	0.7
1978	2.9	1.4	2.9	1.0	1.3

1/ Number of additions per 100 employees.
2/ Number of terminations per 100 employees.
3/ Rates for 1972 and later years based on 1972 SIC codes.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95 and 96, as updated, and records.

Table 185.— INTERSTATE MOVEMENT OF JOB-SEEKERS: 1970 TO 1978

Year	Island workers on the Main-land 1/	Mainland workers in Hawaii 2/	Ratio 3/
1970	5,078	6,062	119
1971 4/	6,213	6,908	111
1972 4/	6,126	5,996	98
1973	5,255	6,116	116
1974	5,924	6,988	118
1975	7,607	8,785	115
1976	7,458	8,334	112
1977	5,846	8,134	139
1978	4,313	6,261	145

1/ Interstate liable initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland.

2/ Interstate agent initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims as a percent of interstate liable initial claims. Ratios under 100 suggest a net out-migration of workers.

4/ Excludes extended claims, authorized for the period from October 1971 to December 1972. Including extended (as well as regular) claims, interstate liable claims numbered 6,306 in 1971 and 7,255 in 1972; interstate agent claims, 6,930 in 1971 and 6,368 in 1972.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 186.-- WORK DISABILITY STATUS OF PERSONS 18 TO 64 BY SEX: 1976

Sex	Total persons 16 to 24 years old	Total reporting on work disability status	Percent with a work disability 1/			
			Total	Prevented from working	Not prevented from working but not able to work regularly	Able to work regularly
Both sexes ...	507,000	502,000	9.2	3.5	1.1	4.6
Male	256,000	253,000	8.7	2.8	0.7	5.2
Female	251,000	249,000	9.7	4.2	1.5	4.0

1/ A person is classified as "with a work disability" if he has a health condition that limits the kind or amount of work he can do.

Source: U.S. Bureau of the Census, "Demographic, Social, and Economic Profile of States: Spring 1976," Current Population Reports, Population Characteristics, Series P-20, No. 334, January 1979, table 30, pp. 78-81.

Table 187.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1970 TO 1978

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1970 ...	37,405	68.56	40	5.2	12,528
1971 ...	34,561	61.62	21	2.6	16,665
1972 ...	34,901	59.93	45	5.5	18,773
1973 ...	36,277	59.06	61	7.3	19,548
1974 ...	37,646	60.47	72	8.5	18,341
1975 ...	40,435	62.53	59	6.8	22,503
1976 ...	38,721	58.60	39	4.4	27,760
1977 ...	37,393	55.26	50	5.6	23,652
1978 ...	38,869	54.61	(NA)	(NA)	32,847

NA Not available.

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 188.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1964 TO 1976

Year	Total unions and asso-ciations	Labor unions				Professional and State employee associations
		Total 1/	Affiliated with AFL-CIO	Unaffiliated		
				National	Local unions	
1964 ...	(NA)	49,000	24,000	24,000	(NA)	(NA)
1966 ...	(NA)	62,000	31,000	25,000	7,000	(NA)
1968 ...	77,000	70,000	36,000	27,000	7,000	7,000
1970 ...	89,000	82,000	45,000	30,000	7,000	8,000
1972 ...	123,000	115,000	78,000	30,000	7,000	9,000
1974 ...	129,000	121,000	84,000	29,000	7,000	8,000
1976 ...	140,000	129,000	95,000	33,000	(Z)	12,000

Z Less than 500.

NA Not available.

1/ Equivalent to 23.6 percent of nonagricultural employment in 1964, 27.9 percent in 1970, and 36.2 percent in 1974.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records; Statistical Abstract of the United States (annual).

Table 189.-- MEMBERSHIP IN LABOR UNIONS, BY CLASS OF WORKER AND ISLAND: 1973

Labor union membership	Total employment		Private employment	
	State total	Oahu	State total	Oahu
All workers 1/	325,100	267,000	249,100	201,000
Organized	130,700	97,200	90,400	65,500
AFL-CIO	89,100	73,500	60,100	50,600
Teamsters	5,900	5,700	5,900	5,700
ILWU	23,600	8,500	23,600	8,500
Others	12,100	9,500	800	700
Not organized	194,400	169,800	158,700	135,500

1/ As of October 1973. Excludes self-employed, domestics, and unpaid family workers.

Source: Hawaii Employers Council, Estimated Union Membership in Hawaii (Research Report No. 1211, January 1974).

Table 190.-- WORK STOPPAGES: 1977 AND 1978

[Estimated by Hawaii State Department of Labor and Industrial Relations.]

Year	Number of work stoppages	Workers involved	Man-days lost
1977	12	9,670	206,795
1978	14	1,774	33,990

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 191.-- WORK STOPPAGES: 1967 TO 1977

[Estimated by U.S. Bureau of Labor Statistics.]

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
1977 2/ ..	8	14,700	666,000	0.74
ISLANDS: 1977				
Oahu 2/ ..	8	14,700	666,000	(NA)
Others ...	-	-	-	0

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

2/ Mean duration was 66.2 days.

Source: U.S. Bureau of Labor Statistics data summarized in Statistical Abstract of the United States (annual); U.S. Bureau of Labor Statistics, Work Stoppages ... (annual reports), and records.

Section 12

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families and individuals. Specifically, information is given on gross state product, industrial income, personal income, family income, poverty, personal wealth, and family expenditures. Data on wage rates appear in Section 11; on industrial payrolls, in Sections 11, 15, 22 and 23; on taxable income, in Section 8.

Gross state product in 1976 amounted to approximately $7.4 billion, or about triple the 1965 total. The major sources of outside income to Hawaii in 1978 were defense expenditures ($1.2 billion), pineapple production ($157 million), sugar production ($285 million), and visitor expenditures ($2.2 billion). Personal income in 1978 was $7.5 billion, compared with $2.7 billion only ten years earlier, and per capita personal income was $8,437 more than twice the 1968 level. The per capita figure for Hawaii exceeded the national average by 8 percent, and thus failed to compensate for the Islands' 24-30 percent higher cost of living. The median annual income of families, based on data for 1975, was $18,228 on Oahu, $15,923 on the Neighbor Islands, and $17,770 Statewide; for unrelated individuals, the all-island median was $6,180. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in June 1979 at $7,710. Top wealthholders in Hawaii — those with gross assets of $60,000 or more — numbered 11,323 in 1962 and 53,700 in 1972. Total assets of this group in the latter year amounted to $7.9 billion, 40 percent of which was in real estate. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent).

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, Community Services Administration, Internal Revenue Service, Hawaii State Department of Agriculture, Hawaii State Department of Planning and Economic Development, Hawaii Visitors Bureau, Bank of Hawaii and First Hawaiian Bank. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1978, Section 14.

Table 192.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1968 TO 1978

[In millions of dollars.]

Year	Total for four major industries	Value of sales		Defense expend- itures	Visitor expend- itures 1/
		Raw sugar and molasses	Fresh and processed pineapple		
1968 ...	1,331	189.1	127.5	574.6	440
1969 ...	1,480	179.0	125.4	625.9	550
1970 ...	1,561	187.8	138.6	639.4	595
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,786	285.2	157.4	1,155.5	2,188

NA Not available.

1/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records; First Hawaiian Bank, Research and Planning Division, records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1978 Annual Research Report table 1.

Table 193.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1966 TO 1976

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1966	2,802.3	3,604.7	3,945	5,075
1967	3,013.1	3,742.7	4,170	5,180
1968	3,350.7	3,983.2	4,562	5,423
1969	3,742.5	4,173.2	4,989	5,563
1970	4,164.7	4,495.4	5,379	5,807
1971	4,460.6	4,616.9	5,590	5,786
1972	4,935.4	4,935.4	6,012	6,012
1973	5,699.9	5,544.6	6,753	6,569
1974	6,318.7	5,661.5	7,398	6,629
1975	6,908.8	5,812.0	7,956	6,693
1976 1/	7,378.6	(NA)	8,351	(NA)

NA Not available.

1/ Preliminary.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1976, Vol. I.

Table 194.-- CHARGES AGAINST GROSS STATE PRODUCT: 1970 AND 1976

[In millions of current dollars.]

Subject	1970	1976 1/
Compensation of employees	2,916.1	4,893.6
Wage and salary dispersements	2,644.7	4,289.9
Employers' contributions to social insurance	154.7	324.1
State and local	41.7	100.4
Federal	113.0	223.7
Other labor income	116.7	279.6
Proprietors' income	192.8	256.0
Rental income of persons	95.6	97.1
Corporate profits	171.1	438.8
Corporate profits tax	80.4	144.6
State and local	13.7	32.9
Federal	66.7	111.7
Dividends	94.7	146.6
Undistributed profits after taxes	- 4.0	147.6
Net interest	238.3	544.0
Business transfer payments	15.5	29.5
Indirect business tax and nontax less subsidies	304.0	547.6
Capital consumption allowances	231.3	572.0
Charges against gross state product	4,164.7	7,378.6

1/ Preliminary.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1976, Vol. I.

Table 195.-- EXPENDITURES ON GROSS STATE PRODUCT: 1970 AND 1976

[In millions of current dollars.]

Subject	1970	1976
Net personal consumption expenditures ...	2,430.4	3,900.5
Gross private domestic investments	882.4	1,095.0
Fixed investment	849.4	1,004.9
Nonresidential structures & equipment	542.2	664.2
Residential	307.2	340.7
Change in business inventories	33.0	90.1
Government purchases of goods & services.	1,531.3	2,587.4
State and local	758.9	1,366.8
Federal	772.4	1,220.6
Net exports	-753.4	(NA)
Exports	1,240.8	(NA)
Less imports	1,994.2	(NA)
Errors and omissions	74.0	(NA)
Expenditures on gross state product	4,164.7	7,378.6

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1976, Vol. I.

Table 196.-- ESTIMATED PERSONAL CONSUMPTION EXPENDITURES: 1975 TO 1978

[In millions of current dollars]

Consumption category	1975	1976 1/	1977 1/	1978 1/
All personal consumption	4,637.0	5,055.2	5,505.0	6,059.7
Goods	2,752.8	3,055.1	3,343.6	3,696.5
Durable	599.8	647.0	690.1	730.1
Nondurable	2,153.0	2,408.1	2,653.4	2,966.3
Services	1,884.3	2,000.1	2,161.4	2,363.2
Food and tobacco	1,204.2	1,311.0	1,415.1	1,520.6
Clothing, accessories, jewelry	500.0	540.5	606.7	680.1
Personal care	64.1	69.3	74.3	79.4
Housing	672.4	737.1	789.9	860.1
Household operation	597.5	652.3	697.4	762.4
Medical care expenses	316.3	362.1	412.0	469.1
Personal business	236.8	248.0	274.9	353.8
Transportation	534.2	572.4	603.8	632.5
Recreation	412.3	453.0	511.5	573.0
Private education and research	42.4	48.4	54.7	59.6
Religious and welfare activities	56.7	61.0	64.6	69.1

1/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, unpublished estimates.

Table 197.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1968 TO 1978

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1968 ...	2,717	2,280	3,779	3,171	111	109
1969 ...	3,099	2,555	4,170	3,439	114	111
1970 ...	3,509	2,898	4,599	3,798	118	114
1971 ...	3,758	3,150	4,785	4,013	116	113
1972 ...	4,110	3,379	5,078	4,177	113	110
1973 ...	4,590	3,819	5,529	4,602	111	108
1974 ...	5,170	4,290	6,130	5,088	113	110
1975 ...	5,742	4,902	6,711	5,727	115	113
1976 ...	6,203	5,342	7,127	6,140	111	112
1977 ...	6,749	5,772	7,673	6,544	109	109
1978 ...	7,465	(NA)	8,437	(NA)	108	(NA)

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, August 1979, Part II, pp. 28-31, and printouts dated April 1979.

Table 198.-- PERSONAL INCOME BY MAJOR SOURCES: 1972 TO 1977

[In millions of dollars]

Item	1972	1973	1974	1975	1976	1977
Labor and proprietors income						
By type:						
Wage and salary disbursements	3,029	3,375	3,691	4,012	4,282	4,636
Other labor income	148	173	193	244	279	320
Proprietors income	217	264	288	244	264	297
Farm	16	26	65	37	33	32
Nonfarm	201	238	222	207	231	265
By industry:						
Farm	102	134	171	154	161	182
Nonfarm	3,292	3,678	4,001	4,346	4,664	5,071
Private	2,142	2,434	2,633	2,848	3,068	3,366
Government and govt. enterprises	1,150	1,244	1,368	1,498	1,596	1,704
Federal, civilian	388	402	438	475	512	518
Federal, military	359	418	465	496	492	518
State and local	402	424	465	527	592	668
Derivation of personal income						
Labor and proprietors income	3,394	3,812	4,172	4,501	4,825	5,252
Less: Personal contributions for social insurance	169	206	230	254	272	293
Net labor and proprietors income	3,225	3,606	3,942	4,247	4,553	4,959
Plus: Dividends, interest, and rent	498	563	684	784	886	975
Plus: Transfer payment	387	450	548	709	817	863
Personal income	4,110	4,620	5,173	5,739	6,256	6,797

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1979.

Table 199.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1969 TO 1977

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
Total: 1/						
1969	3,098.6	2,633.7	464.9	207.3	101.2	156.5
1970	3,508.7	2,981.5	527.2	240.5	109.5	177.1
1971	3,757.8	3,186.7	571.1	261.1	118.3	191.6
1972	4,110.1	3,493.7	616.4	283.2	124.5	208.7
1973	4,619.5	3,910.1	709.4	326.3	142.3	240.8
1974	5,173.5	4,342.9	830.6	371.5	172.6	286.4
1975	5,739.3	4,811.6	927.7	415.2	180.8	331.7
1976	6,255.6	5,228.1	1,027.6	448.1	200.2	379.3
1977	6,797.1	5,651.7	1,145.4	489.6	227.9	427.9
Per capita: 2/						
1969	4,170	4,365	3,331	3,285	3,368	3,371
1970	4,599	4,780	3,788	3,785	3,698	3,851
1971	4,785	4,996	3,872	3,836	3,815	3,960
1972	5,078	5,310	4,070	4,103	3,943	4,104
1973	5,564	5,799	4,548	4,544	4,419	4,634
1974	6,134	6,323	5,304	5,146	5,394	5,467
1975	6,708	6,944	5,702	5,536	5,547	6,019
1976	7,188	7,465	6,045	5,760	5,894	6,514
1977	7,704	7,950	6,686	6,266	6,738	7,209

1/ In millions of dollars.

2/ In dollars.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1979.

Table 200.-- TOTAL MONEY INCOME IN 1975 OF FAMILIES AND UNRELATED INDIVIDUALS BY GEOGRAPHIC AREA, AND PERSONS, BY SEX: SPRING 1976

[Numbers of families, unrelated individuals, and persons in thousands.]

Total money income in 1975	Families			Unrelated individuals			Persons 1/	
	State total	Oahu	Other islands	State total	Oahu	Other islands	Male	Female
All income levels	201	160	41	66	52	14	296	236
Under $2,000 2/	4	3	1	9	6	3	37	67
$2,000 to $3,999	7	5	1	15	10	5	34	50
$4,000 to $5,999	12	9	2	9	7	1	27	38
$6,000 to $7,999	13	10	3	8	7	1	30	32
$8,000 to $9,999	12	10	3	8	7	1	29	20
$10,000 to $11,999	15	11	4	5	4	1	26	12
$12,000 to $14,999	21	15	5	4	4	-	36	9
$15,000 to $19,999	33	25	8	5	4	1	38	6
$20,000 to $24,999	30	24	6	2	2	-	19	2
$25,000 to $49,999	50	42	8	2	1	-	21	2
$50,000 and over	5	5	1	-	-	-		
Median income 3/......dollars	17,770	18,228	15,923	6,180	6,815	3,432	9,489	4,082
Mean income ....dollars	19,789	20,218	18,119	7,950	8,577	5,581	11,282	5,182

1/ Reported for persons in households, 14 years old and over as of Spring 1976, with income in 1975. Persons 14 years old and over as of Spring 1976 but without income in 1975 numbered approximately 107,000 (27,000 males and 80,000 females).

2/ For persons, refers to incomes of $1 to $1,999 or loss.

3/ Corresponding medians for 1969 income, reported by the 1970 census, were as follows: for families, $11,554 Statewide, $12,035 on Oahu, and $9,756 on the other islands; for unrelated individuals, $2,981 Statewide, $3,013 on Oahu, and $2,702 on the other islands; for persons, $6,528 for males and $3,222 for females. The 1970 data, unlike those for 1976, included persons living in military barracks.

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177.

Table 201.— TOTAL MONEY INCOME IN 1975 OF HOUSEHOLDS: SPRING 1976

[Number of households in thousands]

Total money income	All households					Husband - wife house-holds
	Total	Island of residence		Tenure 1/		
		Oahu	Others	Owner occu-pants	Renter occu-pants	
Total	244	194	50	127	105	169
Under $5,000	30	21	9	8	20	7
$5,000 to $9,999 .	41	34	8	10	28	22
$10,000 to $14,999	43	33	10	17	22	31
$15,000 to $19,999	40	31	9	22	16	31
$20,000 to $24,999	33	26	7	21	11	28
$25,000 to $29,999	21	18	3	17	3	19
$30,000 to $49,999	31	26	5	27	3	27
$50,000 and over .	6	5	1	4	1	5
Median income 2/ (dollars)	15,991	16,468	14,309	21,295	10,858	18,911
Mean income (dollars)	18,354	18,869	16,347	23,342	12,881	21,151
Mean size of household	3.45	3.46	3.39	3.81	3.03	3.99
Per capita income (dollars)	5,321	5,447	4,821	6,126	4,257	5,301

1/ Occupiers who paid no cash rent not shown separately.

2/ The median 1969 income of households surveyed in April 1970 was $10,675 for the State and $11,171 for Oahu.

Source: U.S. Bureau of the Census, "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145.

Table 202.-- PERSONS, FAMILIES, AND UNRELATED INDIVIDUALS BELOW SPECIFIED POVERTY LEVELS IN 1975: SPRING 1976

Group	Total (1,000)	Below current poverty level 1/		Below 125 percent of the current poverty level 1/	
		Number (1,000)	Percent	Number (1,000)	Percent
Persons 2/	842	67	7.9	101	12.0
Families	201	13	6.4	20	10.2
Unrelated individuals 2/	66	14	21.6	20	29.7
Primary families and primary individuals 3/	244	20	8.3	31	12.8

1/ Based on national poverty thresholds. The official Hawaii thresholds were 115 percent of the national levels.

2/ Excludes persons living in military barracks and inmates of institutions.

3/ A primary family is a family that includes among its members the person or couple who maintains the household. A primary individual is a person maintaining a household while living alone or with nonrelatives only.

Source: U.S. Bureau of the Census, "Consumer Income and Poverty Status in 1975 of families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 179-180.

Table 203.-- POVERTY POPULATION, HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS, FOR COUNTIES: 1974-1975

Island or county and year of survey	Population		Households		Families 1/	Unrelated individuals
	Number	Percent 2/	Number	Percent 3/		
Oahu, 1975	70,515	10.4	21,596	10.3	14,564	16,136
Hawaii County, 1975 .	14,067	18.8	4,106	19.4	2,959	2,474
Maui County, 1975 ...	6,348	11.5	2,234	12.6	1,402	1,426
Kauai, 1974	3,407	11.5	1,050	12.1	(NA)	(NA)

NA Not available.
1/ Two or more persons.
2/ Of total non-barracks, non-institutional population.
3/ Of total households.

Source: Hawaii Office of Economic Opportunity, Poverty Data from OEO Census Update Survey for Oahu (p. 9), Hawaii County (p. 9), and Maui County (p. 11), and Poverty Data from Kauai Socioeconomic Profile, County of Kauai (p. 13).

Table 204.-- FAMILY INCOME POVERTY GUIDELINES: JUNE 6, 1979

[In dollars. These family income levels are poverty thresholds used by the Community Services Administration, effective June 6, 1979, to determine eligibility for Federal programs for the poor.]

Family size	Nonfarm family	Farm family
1	3,930	3,350
2	5,190	4,420
3	6,450	5,490
4 1/	7,710	6,560
5	8,970	7,630
6 2/	10,230	8,700

1/ Corresponding levels for four-person families were $6,700 and $5,700 on the Mainland and $8,380 and $7,130 in Alaska.

2/ For larger families, add $1,260 for each additional member in a nonfarm family and $1,070 for each additional member in a farm family.

Source: Community Services Administration, "CSA Income Poverty Guidelines (Revised)," CSA Instruction 6004-1L, in Federal Register, Vol. 44, No. 89 (May 7, 1979), pp. 26745-26746.

Table 205.— TOP WEALTHHOLDERS: 1962 TO 1972

[Top wealthholders are defined as persons with a gross estate of $60,000 or more. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars.]

Subject	1962	1969	1972
Number of top wealthholders	11,323	36,470	53,700
Total assets	1,908	6,327	7,866
Debts and mortgages 1/ ... Number .	9,909	29,301	48,200
Amount .	231	1,090	1,369
Net worth	1,677	5,236	6,497

1/ "Debts" in 1962.

Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56, Statistics of Income - 1969, Personal Wealth (1973), 57-58, and Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33.

Table 206.-- SELECTED FAMILY CHARACTERISTICS, ANNUAL EXPENDITURES, AND SOURCES OF INCOME OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

Item	Amount
Number of families in universe (000's)	209
Selected family characteristics	
Average	
Family size	3.5
Family income before taxes	$ 15,665
Family income after taxes	$ 13,055
Age of head	43
Number of children under 18	1.4
Number of persons 65 and over	.1
Number of automobiles owned	1.5
Percent 1/	
Housing tenure	
Homeowner	41.0
With mortgage	29.4
Without mortgage	11.6
Mortgage not reported	(2/)
Renter	53.3
Other, including not reported	5.7
Race of head	
White	34.4
Black	1.6
Other	64.0
Education of family head	
1 to 8 years	11.8
9 years, not more than 12 years	50.0
More than 12 years	29.9
Not reported or no school	8.3
Automobile ownership	
At least one automobile owned	86.2
Expenditure categories	
Current consumption expenses, total	$ 9,506.14
Food, total	1,916.09
Food at home, total	1,292.73
Cereals and cereal products	52.94
Bakery products	86.52
Beef	215.27
Pork	90.75
Other meats	54.64
Poultry	63.26
Fish and seafood	99.54
Eggs	30.02
Fresh milk and cream	63.40
Other dairy products	53.86
Fresh fruits	54.21
Fresh vegetables	68.98

Table 206.— SELECTED FAMILY CHARACTERISTICS, ANNUAL EXPENDITURES, AND SOURCES OF INCOME OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 — Cont.

Item	Amount
Current consumption expenses: food at home (continued)	
Processed fruits	42.00
Processed vegetables	42.95
Sugar and other sweets	32.82
Nonalcoholic beverages	81.36
Fats and oils	30.39
Miscellaneous prepared foods, condiments, and seasonings	129.83
Food away from home	590.44
Meals as pay	32.93
Alcoholic beverages	129.93
Tobacco products and smoking supplies	102.22
Housing, total	$ 3,182.03
Shelter, total	1,917.78
Rented dwellings	1,129.97
Owned dwellings	813.36
Other lodging, excluding vacation	28.45
Fuel and utilities, total	256.40
Gas, total	25.18
Gas, delivered in mains	21.45
Gas, bottled or tank	3.74
Electricity	177.67
Gas and electricity, combined bills	2.08
Fuel oil and kerosene	.59
Other fuels, coal, and wood	.17
Water, garbage, sewerage, trash, and other	50.70
Household operations, total	504.69
Telephone	200.56
Housekeeping and laundry supplies, total	153.06
Laundry and cleaning supplies	50.52
Other household products	51.80
Postage and stationery	50.73
Domestic and other household services	151.06
Housefurnishings and equipment, total	449.17
Household textiles	64.49
Furniture	136.44
Floor coverings	48.60
Major appliances	103.44
Small appliances	12.15
Housewares	24.03
Miscellaneous	60.01
Clothing, total	$ 590.48
Male's, 2 and over	214.17
Female's, 2 and over	324.16
Children's, under 2 years	13.11
Materials, repairs, alterations and services	39.03

Table 206.-- SELECTED FAMILY CHARACTERISTICS, ANNUAL EXPENDITURES, AND SOURCES OF INCOME OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 -- Cont.

Item	Amount
Current consumption expenses (continued)	
Dry cleaning and laundry	$ 63.43
Transportation, total	1,530.72
Vehicle purchases (net outlay)	578.97
Vehicle finance charges	110.52
Vehicle operations, total	758.61
Gasoline and fuels	317.03
Other	441.57
Other transportation	82.62
Health care, total	513.92
Health insurance	197.68
Expenses not covered by insurance	283.52
Nonprescription drugs and medical supplies	32.72
Personal care	157.96
Recreation, total	834.15
Vacation and pleasure trips, total	372.57
Food	50.91
Alcoholic beverages	5.20
Lodging	30.54
Transportation, total	167.80
Gasoline	1.30
Other transportation	166.50
All expense tours	95.95
Other vacation expenses	22.17
Boats, aircraft, and wheel goods	25.68
Other recreation, total	435.90
Television	43.07
Other	392.83
Pets, toys, and games	46.33
All other recreation expenses	346.50
Reading	70.37
Education, total	142.50
Private	79.25
Public	56.88
Day and summer camp	6.38
Miscellaneous	272.33
Personal insurance, retirement, and pensions, total	1,325.37
Life, endowment, annuities and income insurance	437.01
Other personal insurance	12.78
Retirement and pensions	875.58
Gifts and contributions	451.82
Sources of income and personal taxes	
Money income before taxes	15,665.31
Wages and salaries, total	12,873.17
Money wages and salaries, civilians	12,064.09
Union dues	-47.08
Other occupational expenses	-29.23

Table 206.-- SELECTED FAMILY CHARACTERISTICS, ANNUAL EXPENDITURES, AND SOURCES OF INCOME OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 -- Cont.

Item	Amount
Sources of income: wages and salaries (continued)	
Rent received as pay	$ 27.36
Meals received as pay	32.93
Money wages and salaries, armed forces	685.82
Quarters and subsistence	139.27
Self-employment income, total	683.73
Net income from own business	600.97
Net income from own farm	82.76
Social security and railroad retirement	361.52
Government retirement, veteran's payments, and unemployment compensation	413.20
Estates, trusts, dividends, rental income, royalties, income from roomers and boarders, total	616.16
Rental income, royalties, income from roomers and boarders	150.31
Income from interest, dividends, estates and trusts	465.85
Income from all other sources, total	717.55
Welfare and public assistance	129.71
Private pensions	55.43
Regular contributions for support	74.72
Other income, including workers' compensation	457.68
Personal taxes, total	-2,610.60
Federal income taxes	-1,990.21
State and local income taxes	- 595.92
Personal property and other personal taxes	- 24.47
Other financial information	
Other money receipts	561.06
Net change in assets and liabilities 3/	1,109.14
Net change in assets	2,016.72
Net change in liabilities	907.58
Goods and services received without direct expense	99.09
Market value of financial assets	8,199.06
Mortgage principal paid on owned property	- 526.71
Estimated market value of owned home 4/	23,725.95
Estimated monthly rental value of owned home 4/	140.14

1/ Percents may not sum to 100 due to rounding.
2/ Value less than 0.05.
3/ Data represent end-of-year values.
4/ Estimates made at the beginning of the survey year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas, Bulletin 1992 (1978), table 115, pp. 120-125.

Section 13

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 20, 21, 22, and 23.

In April 1979, the Honolulu all-items consumer price index for all urban consumers stood at 200.7, with the 1967 level equal to 100. The index had increased 10.6 percent in the preceding 12 months, 45.8 percent since April 1974, and 87.2 percent since April 1969. Prices have risen most rapidly since 1967 for gas and electricity (143.1 percent), food at home (139.7 percent), medical care (136.8 percent) and restaurant meals (up 133.0 percent), and least for public transportation (up 32.2 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $23,099 as of the Autumn of 1978. This family budget was 24 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas. The "lower" budget was 29 percent above the national figure; the "higher" budget, 30 percent. Hawaii-Mainland differentials were greatest for rents and personal income taxes and least for clothing and transportation. An "intermediate" budget for a retired couple in Honolulu came to $8,107 in the Autumn of 1977, 13 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics at three-month intervals since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS. A similar series for Honolulu was maintained by the Hawaii State Department of Labor and Industrial Relations from March 1943 to December 1963, using March 1943 as the base date.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the December 1977 existing index (174.9) and, like the latter, expressed as a percent of the 1967 annual average. The June 1978 all-items index was 182.1 according to the old coverage and weights, 184.1 based on the previous coverage and revised weights, and 183.9 with the expanded coverage and new weights.

Comparisons of family budgets between Honolulu and various Mainland communities have most recently been made for the Fall of 1978. These data were compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back a number of years, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1978, and a 40-area comparison for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually since 1969. Cost of living adjustments for Federal employees in Hawaii are based on the Honolulu-Washington comparisons.

In addition to these data, the Bureau of Labor Statistics until recently published monthly and annual data on average prices for a wide variety of foods, and occasional data on a number of non-food items. The food price series were suspended after June 1978 but may be resumed at a later time.

No composite wholesale price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Reporting Service, and Honolulu Prices: Wholesale Eggs, Poultry, Pork, Beef and Rice and Wholesale Prices: Wholesale Fresh Fruits and Vegetables, publications of the State Department of Agriculture, Market News Service. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1978, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 207.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU: QUARTERLY, 1967 TO 1978

[Unrevised index for urban wage earners and clerical workers. Annual average for 1967=100]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 1/ ...	...	177.9	182.1	...	...

1/ The unrevised consumer price index was discontinued after June 1978. For the revised index, see the following table.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 208.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER: BIMONTHLY, 1977 TO 1979

[1967 average = 100]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers:							
1977	...	...	...	...	...	...	174.9
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	...	196.2	200.7	204.4	207.2	...	...
Urban wage earners and clerical workers (revised):							
1977	...	...	...	...	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	...	196.0	200.0	203.6	207.2	...	...

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 209.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1979

[Unless otherwise specified, 1967=100]

Group	Annual averages 1977	Annual averages 1978	June 1979
All items	171.0	184.1	204.4
Food and beverages	186.9	205.4	232.8
Food	193.0	212.8	241.7
Food at home	189.0	210.9	246.5
Cereals and bakery products	172.8	196.0	215.4
Meats, poultry, fish, and eggs	185.3	207.2	252.4
Meats, poultry, and fish	186.9	210.2	257.3
Dairy products	187.9	203.1	224.2
Fruits and vegetables	190.7	219.2	280.6
Other foods at home	214.0	235.7	254.2
Food away from home	204.5	218.9	234.7
Alcoholic beverages	136.7	143.4	156.9
Housing	160.3	171.7	192.2
Shelter	160.0	170.6	195.0
Rent, residential	163.5	174.1	184.8
Other rental costs	182.7	203.0	205.8
Homeownership	157.6	167.5	195.8
Fuel and other utilities	175.5	201.0	208.8
Fuels	202.8	229.0	245.0
Fuel oil, coal, and bottled gas 1/	(NA)	102.5	112.0
Gas (piped) and electricity	202.7	229.2	245.1
Household furnishings and operation	152.7	160.3	170.3
Apparel and upkeep	152.2	161.3	172.6
Apparel commodities	149.8	158.7	169.6
Men's and boys' apparel	150.3	158.7	166.8
Women's and girls' apparel	139.4	150.6	163.2
Footwear	151.0	163.7	169.1
Transportation	159.7	170.4	188.1
Private transportation	166.1	178.0	197.7
Public transportation	125.6	128.8	134.2
Medical care	203.0	221.0	237.3
Entertainment	170.8	177.7	188.1
Other goods and services	172.1	183.9	196.4
Personal care	177.8	189.9	205.6

Continued on next page.

Table 209.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1979 -- Continued

[Unless otherwise specified, 1967=100]

Groups	Annual average		June 1979
	1977	1978	
Commodities and Service Groups			
Commodities	167.6	179.5	202.3
Food and beverages	186.9	205.4	232.8
Commodities less food and beverages	151.9	160.0	179.8
Nondurables less food and beverages	164.5	173.5	192.8
Durables	136.9	143.5	162.5
Services	177.3	192.3	209.5
Medical care services	210.6	229.6	245.7
Special Indexes:			
All items less shelter	173.8	187.6	205.1
All items less medical care	168.9	181.7	202.1
All items less energy 2/	(NA)	105.2	116.5
Energy 1/	(NA)	100.4	115.9
Commodities less food	150.7	158.7	178.2
Nondurables less food	160.7	169.4	188.0
Nondurables	177.9	192.1	215.9
Services less rent	180.9	197.0	215.6
Services less medical care	171.2	185.3	202.2

NA Not available.
1/ June 1978=100.
2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979, table 17-A; "Consumer Price Index--Pacific Cities and U.S. Average--June 1979;" and records.

Table 210.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1979

[Unless otherwise specified, 1967=100]

Groups	Annual average 1977	Annual average 1978	June 1979
All items	171.0	184.1	203.6
Food and beverages	186.9	205.3	230.2
Food	193.0	212.8	239.0
Food at home	189.0	211.7	242.3
Cereals and bakery products	172.8	194.8	212.3
Meats, poultry, fish, and eggs	185.3	210.3	255.7
Meats, poultry, and fish	186.9	213.6	260.9
Dairy products	187.9	203.4	223.2
Fruits and vegetables	190.7	219.1	253.5
Other foods at home	214.0	235.1	253.1
Food away from home	204.5	216.8	233.0
Alcoholic beverages	136.7	142.8	155.2
Housing	160.3	171.4	190.9
Shelter	160.0	169.1	192.0
Rent, residential	163.5	174.1	184.8
Other rental costs	182.7	204.6	206.1
Homeownership	157.6	165.5	192.4
Fuel and other utilities	175.5	201.1	209.1
Fuels	202.8	229.0	245.4
Fuel oil, coal, and bottled gas 1/	(NA)	102.4	111.7
Gas (piped) and electricity	202.7	229.1	245.5
Household furnishings and operation	152.7	164.0	176.6
Apparel and upkeep	152.2	159.3	167.4
Apparel commodities	149.8	156.5	163.5
Men's and boys' apparel	150.3	161.1	167.1
Women's and girls' apparel	139.4	139.2	142.4
Footwear	151.0	156.8	153.8
Transportation	159.7	170.0	188.5
Private transportation	166.1	177.4	197.7
Public transportation	125.6	128.9	134.2
Medical care	203.0	223.3	239.9
Entertainment	170.8	182.0	196.5
Other goods and services	172.1	182.1	195.3
Personal care	177.8	185.6	201.3

Continued on next page.

Table 210.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1979 -- Continued

[Unless otherwise specified, 1967=100]

Groups	Annual averages		June 1979
	1977	1978	
Commodities and Service Groups			
Commodities	167.6	179.5	201.3
Food and beverages	186.9	205.3	230.2
Commodities less food and beverages	151.9	159.8	179.3
Nondurables less food and beverages	164.5	173.5	192.9
Durables	136.9	143.1	161.8
Services	177.3	192.5	208.4
Medical care services	210.6	232.4	250.0
Special Indexes:			
All items less shelter	173.8	188.2	205.9
All items less medical care	168.9	181.6	201.1
All items less energy 2/	(NA)	105.2	115.9
Energy 1/	(NA)	100.3	116.8
Commodities less food	150.7	158.5	177.6
Nondurables less food	160.7	169.3	187.9
Nondurables	177.9	192.2	214.7
Services less rent	180.9	197.1	214.3
Services less medical care	171.2	185.2	200.7

NA Not available.

1/ June 1978=100.

2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979, table 22-A; "Consumer Price Index--Pacific Cities and U.S. Average--June 1979;" and records.

Table 211.-- AVERAGE RETAIL PRICES OF FOOD IN HONOLULU: 1970 TO 1978

[In cents. Data are annual averages unless otherwise indicated. This series was suspended after June 1978.]

Food and unit	1970	1977	1978: May
Cereals and bakery products:			
Flour, white, all purpose ... 5 lb.	74.9	97.4	103.7
Rice, short grain ... 10 lb.	144.7	240.8	315.3
Bread, white ... lb.	29.7	48.4	50.9
Meats, poultry and fish:			
Steak, round, U.S. Choice ... lb.	128.5	200.9	225.1
Rib roast, U.S. Choice ... lb.	143.6	237.2	268.4
Chuck roast, U.S. Choice ... lb.	79.8	121.1	138.0
Hamburger ... lb.	86.5	119.1	131.7
Beef liver ... lb.	86.9	120.9	118.9
Veal cutlets ... lb.	...	...	207.1
Pork chops ... lb.	152.9	216.6	224.1
Ham, whole, smoked ... lb.	85.4	141.0	158.8
Bacon ... lb.	108.9	183.1	210.3
Frying chicken, whole or cut-up ... lb.	68.4	98.0	97.5
Mahimahi, fresh or frozen ... lb.	89.4	160.5	190.0
Dairy products:			
Milk, fresh, vit. D, grocery ... 1/2 gal.	67.0	113.3	119.7
Milk, evaporated ... 14 1/2-oz. can	21.9	40.5	43.3
Butter ... lb.	95.5	140.0	154.4
Fruits and vegetables:			
Apples, all purpose ... lb.	37.6	57.5	65.0
Bananas ... lb.	26.3	40.1	44.8
Papayas ... lb.	21.8	45.0	55.6
Potatoes ... 10 lb.	193.0	261.2	242.8
Onions, yellow ... lb.	19.4	35.7	39.3
Cabbage ... lb.	12.0	27.6	23.2
Tomatoes ... lb.	47.3	84.4	93.9
Peas, green ... #303 can	32.9	48.2	49.0
Tomatoes ... #2 1/2 can	40.1	83.8	81.2
Dried beans ... lb.	26.4	63.3	71.1
Other foods at home:			
Eggs, grade A, large ... dozen	76.2	105.7	103.9
Margarine ... lb.	38.1	72.1	76.4
Sugar, white ... 5 lb.	68.3	116.5	133.4
Coffee ... 1-lb. can	103.7	408.0	381.4
Chicken soup ... 10 1/2-oz. can	21.1	27.9	27.9

Source: U.S. Bureau of Labor Statistics, Estimated Retail Food Prices by City (annual, 1970-1977) and Estimated Average Retail Food Prices--Pacific Region (monthly, 1978).

Table 212.-- COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1978

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn ...	...	11,190	...	...	122	...
1967: Spring ...	7,246	10,902	16,076	122	120	123
1969: Spring ...	8,135	12,118	18,315	124	120	126
1970: Spring ...	8,597	12,776	19,311	124	120	125
1971: Autumn ...	8,990	13,108	19,700	125	119	124
1972: Autumn ...	9,118	13,617	20,579	123	119	124
1973: Autumn ...	9,924	14,937	21,901	121	118	120
1974: Autumn ...	11,383	17,019	25,572	124	119	123
1975: Autumn ...	12,226	18,694	28,302	128	122	127
1976: Autumn ...	12,711	19,633	30,086	127	121	127
1977: Autumn ...	13,280	20,883	31,897	127	122	127
1978: Autumn ...	14,870	23,099	35,602	129	124	130
RETIRED COUPLE						
1966: Autumn ...	...	4,434	...	...	115	...
1967: Spring ...	3,110	4,429	7,219	116	115	120
1969: Spring ...	3,401	4,884	7,849	116	115	118
1970: Spring ...	3,562	5,166	8,312	115	115	117
1971: Autumn ...	3,875	5,538	8,621	117	116	116
1972: Autumn ...	3,927	5,633	8,717	114	113	113
1973: Autumn ...	4,221	6,038	8,844	112	112	110
1974: Autumn ...	4,801	6,796	9,918	114	112	111
1975: Autumn ...	5,168	7,339	10,726	115	114	112
1976: Autumn ...	5,397	7,691	11,318	115	114	113
1977: Autumn ...	5,711	8,107	11,882	114	113	111
1978: Autumn ...	6,357	8,987	13,085	115	115	113

Source: Data for 1978 from U.S. Bureau of Labor Statistics, *Autumn 1978 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, USDL: 79-305, April 29, 1979) and *Three Budgets for a Retired Couple, Autumn 1978* (release, USDL:78-588, August 20, 1979). For sources of data for earlier years, see *The State of Hawaii Data Book 1978*, table 226.

Table 213.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1978

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
Total budget 1/	14,870	23,099	35,602	129	124	130
Total consumption	11,433	16,389	22,907	122	117	119
Food	4,474	5,614	7,180	125	122	124
At home	4,004	4,858	5,836	130	125	126
Away from home	470	756	1,344	96	103	114
Housing 2/	3,106	5,187	8,117	139	124	128
Shelter 3/	2,442	4,098	5,930	146	127	137
Renter costs 4/	2,442	3,073	4,494	146	142	132
Homeowner costs 5/	-	4,440	6,183	-	124	138
Housefurnishings & operations	664	1,089	1,952	119	114	108
Transportation 6/	884	1,678	2,233	103	107	109
Automobile owners	1,267	1,678	2,233	110	102	109
Clothing	903	1,248	1,754	107	103	99
Personal care	342	450	637	114	112	112
Medical care 7/	1,148	1,153	1,202	108	108	108
Other family consumption 8/	576	1,059	1,784	112	111	113
Other items 9/	563	894	1,549	112	110	113
Social security & disability payments	961	1,130	1,130	134	105	104
Personal income taxes	1,913	4,686	10,016	205	171	175

Footnotes and source on next page.

[1] Among the 40 metropolitan areas for which separate indexes were reported, Honolulu ranked second in total budget costs at all three levels, exceeded only by Anchorage.

[2] Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

[3] The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

[4] Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

[5] Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

[6] Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

[7] Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

[8] Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

[9] Includes gifts and contributions, life insurance and occupational expenses.

Source: U.S. Bureau of Labor Statistics, Autumn 1978 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release, USDL: 79-305, April 29, 1979).

Table 214.— ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1978

[For a retired husband and wife, age 65 years or over. Excludes personal income taxes.]

Item	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	6,357	8,987	13,085	115	115	113
Total family consumption	6,083	8,446	12,106	115	115	113
Food	2,198	2,864	3,669	127	125	127
At home	2,068	2,586	3,113	130	126	127
Away from home	130	278	556	99	113	127
Housing 2/	1,927	2,876	4,503	105	109	109
Shelter 3/	1,359	1,728	2,519	99	102	105
Renter costs 4/	1,835	2,536	3,480	143	150	136
Homeowner costs 5/	1,042	1,293	2,107	73	77	90
Housefurnishings, operations	568	1,148	1,871	123	121	116
Transportation 6/	537	887	1,388	149	127	107
Clothing	223	370	534	101	100	94
Personal care	169	247	361	108	108	108
Medical care	778	784	791	102	102	102
Other family consumption 7/	251	418	860	114	114	119
Other items 8/	274	541	979	116	115	112

1/ Among the 40 metropolitan areas for which separate indexes were reported, Honolulu ranked second (below Anchorage) at the lower level and fourth (below Anchorage, Boston, and New York) at the intermediate and higher levels.

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent in rented dwellings.

4/ Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

5/ Includes property taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs. Assumes all mortgage payments have been completed prior to retirement.

6/ Based on 45 percent of the lower budget families, 60 percent of the intermediate budget families, and all of the higher budget families owning automobiles.

7/ Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

Footnotes continued on next page.

Table 214.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1978 -- Con.

8/ Includes gifts and contributions. The higher level also includes an allowance for life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1978 (release, USDL: 78-588, August 20, 1979).

Table 215.-- COST OF LIVING OF FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1978 AND 1979

[Washington, D.C. = 100. Based on a survey of comparative costs, used in determining cost of living allowances (COLA) for Federal employees in Hawaii.]

Island	Local retail 1/		Commissary, PX 2/	
	Private housing 3/	Federal housing 4/	Private housing 3/	Federal housing 4/
1978				
Oahu	115.8	(NA)	101.9	(NA)
Hawaii	116.0	(NA)	...	...
Kauai	117.0	(NA)	116.6	(NA)
Maui and Lanai	113.5	(NA)	...	...
Molokai	115.9	(NA)	...	...
1979				
Oahu	112.2	102.2	97.9	87.9
Hawaii	109.3	102.1	...	...
Kauai	114.4	107.6	113.8	107.0
Maui and Lanai	111.1	105.8	...	...
Molokai	116.2	107.2	...	...

NA Not available.

1/ Indexes for Federal employees who purchase goods and services only from private retail establishments.

2/ Indexes for Federal employees with unlimited access to military commissary and exchange facilities.

3/ Indexes for Federal employees who occupy housing units that are privately owned or rented.

4/ Indexes for Federal employees who occupy housing units owned or leased by a Federal agency.

Source: U.S. Civil Service Commission, "Nonforeign Area Cost of Living Allowances," FPM Letter 591-29 (October 30, 1978), attachment, and U.S. Office of Personnel Management, "Nonforeign Area Cost of Living Allowances for Guam and the State of Hawaii and Post Differentials for Eligible Locations," FPM Letter 591-34 (September 4, 1979; advanced edition, August 21, 1979), attachment.

Section 14

ELECTIONS

This section presents data on the number and characteristics of registered voters, votes cast, elected officials, and legislative bills.

More than 395,000 persons were registered to vote in the general election of November 7, 1978, and more than 292,000 actually voted. The number voting amounted to 46 percent of the 637,000 Hawaii residents of voting age at that time. The latter figure included numerous aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females slightly outnumbered males and Democrats were far more numerous than Republicans.

A constitutional convention was convened on July 5, 1978. In the election for delegates to this convention, about 119,000 persons cast ballots out of 345,000 registered to vote. All of the constitutional amendments proposed by the convention were subsequently approved by the electorate.

Elective offices in Hawaii include the President, two U. S. Senators, two U. S. Representatives, the Governor, 25 State Senators, 51 State Representatives, and various county officials. The minimum voting age is 18 years.

The 1979 State Legislature, with 76 members, included 66 males, 25 persons under 40 years of age, 36 persons of Japanese ancestry, 11 persons born in places other than Hawaii, and 60 Democrats.

In its 1978 session, the State Legislature considered 5,501 bills; 248 were passed and 239 became law. The Legislature also considered 1,521 resolutions, of which 875 were approved.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County Clerks. In October 1978, the Department of Planning and Economic Development issued its Statistical Report 127, Potential Voters in Hawaii, November 1978. Characteristics of individual precincts are described in 1976 Hawaii Voting Behavior, compiled by Daniel W. Tuttle, Jr., and published by the Public Affairs Advisory Services, Inc., on May 31, 1978. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1978, Section 16.

Table 216.-- POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1978

[Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii]

Year (Nov.)	Persons of voting age	Percent casting votes		Subject	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960	371,000	49.7	49.2	Age, 1978:	
1962	390,000	...	49.9	18 to 24 years	146,000
1964	404,000	51.3	56.9	25 to 44 years	248,000
1966	417,000	...	49.9	45 to 64 years	177,000
1968	439,000	53.8	55.3	65 years and over	67,000
1970	473,000	...	44.0		
1972	536,000	50.4	51.3		
1974	574,000	...	45.2	Race, 1978:	
1976	605,000	48.2	48.5	White	246,000
1978	637,000	...	39.8	Black	10,000
				Other	381,000

Source: U. S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1978." Current Population Reports, Series P-25, No. 732, September 1978; Office of the Lieutenant Governor, records.

Table 217.-- CITIZENS 18 YEARS OLD AND OVER REPORTED REGISTERED AND VOTING, BY RACE AND ETHNIC ORIGIN, FOR THE CITY AND COUNTY OF HONOLULU: NOVEMBER 1976

[Based on a sample of 2,291 households and subject to considerable sampling variation. For standard errors, see source.]

Race and ethnic origin 1/	U.S. citizen					Not a U.S. citizen	Percent of citizens reported--			
	Total citizens	Reported registered		Reported voted			Registered		Voted	
		Total	In this jurisdiction	Total	In this jurisdiction		Total	In this jurisdiction	Total	In this jurisdiction
All races 2/	447,266	305,679	272,496	276,675	254,997	42,982	68.3	60.9	61.9	57.0
White	164,132	110,894	85,551	97,753	80,545	3,733	67.6	52.1	59.6	49.1
Black	7,360	2,789	1,270	1,704	1,270	-	37.9	17.3	23.2	17.3
American Indian	8,052	4,038	2,662	3,530	2,588	331	50.1	33.1	43.8	32.1
Chinese	51,606	37,937	37,285	35,379	34,836	4,554	73.5	72.2	68.6	67.5
Japanese	136,053	98,580	96,278	91,232	89,839	10,043	72.5	70.8	67.1	66.0
Filipino	35,241	23,428	22,596	21,177	20,743	15,110	66.5	64.1	60.1	58.9
Korean	7,008	4,855	4,855	4,452	4,452	3,506	69.3	69.3	63.5	63.5
Other races	37,814	23,158	21,999	21,448	20,724	5,705	61.2	58.2	56.7	54.8
Spanish heritage 3/	11,187	5,891	4,357	4,798	3,955	956	52.7	38.9	42.9	35.4
Spanish origin 4/	17,795	9,192	7,587	8,099	7,041	551	51.7	42.6	45.5	39.6

1/ Treatment of part Hawaiians and other persons of mixed race not indicated in source.

2/ The number of voters in this jurisdiction, based on election returns rather than survey results, was 234,088, or 52.3 percent of the citizens 18 years of age and older; the survey thus overstated voter participation by 20,909.

3/ Persons who reported that Spanish was the language usually spoken in their homes when they were children, or persons in families in which the husband or wife reported Spanish as his or her mother tongue.

4/ Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish origin or descent.

Source: U.S. Bureau of the Census, "Registration and Voting in November 1976 -- Jurisdictions Covered by the Voting Rights Act Amendments of 1975," Current Population Reports, Special Studies, Series P-23, No. 74, September 1978, pp. 6, 15, and 22.

Table 218.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1968 TO 1978

Type and date of election	Registered voters 1/			Votes cast		Percent of civilian population 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters	Registered	Voting
Primary elections:							
1968: Oct. 5	265,253	...	...	166,271	62.7	39.2	24.5
1970: Oct. 3	282,472	...	...	202,401	71.7	39.1	28.0
1972: Oct. 7	326,906	...	...	203,160	62.1	42.4	26.3
1974: Oct. 5	333,527	...	...	235,982	70.8	41.8	29.6
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2	42.8	30.5
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6	46.1	34.4
General elections:							
1968: Nov. 5	274,199	137,863	136,302	239,765	87.4	40.5	35.4
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9	40.4	34.3
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8	43.8	37.2
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4	43.0	34.2
1976: Nov. 2 3/	363,045	180,265	182,780	309,025	85.1	44.0	37.4
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0	47.0	34.8
Special elections: 4/							
1968: June 1	242,827	...	...	110,370	45.5	35.8	16.3
1978: May 20	344,952	169,737	175,165	119,250	34.6	41.1	14.2

1/ Data by sex not available for primary elections before 1976 and the Constitutional Convention election of 1968. Data by sex for November 5, 1968 do not add exactly to the published total.

2/ Based on official estimates as of July 1.

3/ Number voting excludes 64 unregistered votes cast (overseas and nonresident).

4/ Constitutional Conventions of 1968 and 1978.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election. Registered voters by sex for the 1968 general election from unpublished data.

Table 219.-- PARTY OF VOTERS REGISTERED FOR GENERAL ELECTIONS: 1970 TO 1978

General election	All registered voters	Democratic	Republican	Other parties	Non-partisan	Non-affiliated
1970: Nov. 3 1/	291,681	133,479	36,787	-	-	121,415
1972: Nov. 7	337,837	171,374	46,890	-	-	119,573
1974: Nov. 5	343,404	190,270	47,815	18	154	105,147
1976: Nov. 2	363,045	215,321	41,849	138	273	105,464
1978: Nov. 7	395,262	241,456	37,663	400	552	115,191

1/ Earliest year available.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1970 (p. 79), 1972 (p. 98), 1974 (p. 89), 1976 (p. 134), and 1978 (p. 157).

Table 220.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1978

Election and county	Registered voters			Votes cast		Percent of civilian population 1/	
	Both sexes	Male	Female	Number	Percent of reg. voters	Registered	Voting
PRIMARY ELECTION							
State total .	387,673	190,796	196,877	289,029	74.6	46.1	34.4
Hawaii	41,149	20,491	20,658	30,875	75.0	51.0	38.3
Maui	31,552	15,724	15,828	23,409	74.2	51.4	38.1
Honolulu	295,581	144,871	150,710	219,379	74.2	44.5	33.1
Kauai	19,391	9,710	9,681	15,366	79.2	56.2	44.5
GENERAL ELECTION							
State total .	395,262	194,412	200,850	292,690	74.0	47.0	34.8
Hawaii	41,837	20,820	21,017	32,852	78.5	51.8	40.7
Maui	32,002	15,924	16,078	24,184	75.6	52.1	39.4
Honolulu	301,758	147,824	153,934	219,584	72.8	45.5	33.1
Kauai	19,665	9,844	9,821	16,070	81.7	57.0	46.6

1/ Based on July 1 estimate.

Source: Office of the Lieutenant Governor, Result of Votes Cast, for each election.

Table 221.— VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, OCTOBER 7, 1978

Office, party, and candidate	Votes
GOVERNOR	
Democrat:	
George R. Ariyoshi	130,527
Frank F. Fasi	126,903
Billy Kuaiwa	1,363
Valentine Huihui	685
Republican:	
John Leopold	20,524
Valentine K. Wessel, Sr.	1,093
Gabriel Juarez, Jr.	799
Aloha Democratic:	
John Moore	95
Libertarian:	
Gregory Reeser	55
Non-Partisan:	
Alema Leota	236
Frank Pore, Jr.	168
LIEUTENANT GOVERNOR	
Democrat:	
Jean Sadako King	72,279
Wayne K. Nishiki	70,582
Billie Beamer	59,600
David C. McClung	28,031
Van Diamond	20,581
William Masao Toyama	1,216
Virginia Teipel	1,002
James Silva	772
Mildred W. Shimabuku	630
Republican:	
Virginia Isbell	10,020
Lionel Kaipo Hanakahi	4,794
Richard E. Mello	4,346
Aloha Democratic:	
Lewis Goldstein	89
Libertarian:	
Lloyd George Silva	52
Non-Partisan:	
Mamu Taylor	309

Table 221.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, OCTOBER 7, 1978 -- Cont.

Office, party, and candidate	Votes
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Cecil Heftel	92,597
John K. Larson	10,621
Anthony G. Montero	2,817
Republican:	
Bill Spillane	5,998
Spencer James Cabral	3,455
Aloha Democratic:	
Debra Figueroa	27
Libertarian:	
Pete Larsen	33
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel K. Akaka	112,704
Republican:	
Charles Isaak	8,658
Libertarian:	
Amelia Lew Fritts	16

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election, Saturday, October 7, 1978, State of Hawaii.

Table 222.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1974 TO 1978

Election and office	Democratic party		Republican party		Other parties	
	Candidate	Votes	Candidate	Votes	Candidate	Votes
November 5, 1974:						
Governor	Ariyoshi .	136,262	Crossley .	113,388	None	...
U.S. Senator	Inouye, D.	207,454	None	...	Kimmel 1/	42,767
U.S. Representative, Dist. 1	Matsunaga	71,552	Paul	49,065	None	...
U.S. Representative, Dist. 2	Mink	86,916	Coray	51,894	None	...
November 2, 1976:						
President	Carter ...	147,375	Ford	140,003	MacBride 2/	3,923
U.S. Senator	Matsunaga	162,305	Quinn	122,724	Others 3/.	17,063
U.S. Representative, Dist. 1	Heftel ...	60,050	Rohlfing .	53,745	Hashijo 4/	23,807
U.S. Representative, Dist. 2	Akaka	124,116	Inouye, H.	23,917	Others 5/ .	8,066
November 7, 1978:						
Governor	Ariyoshi .	153,394	Leopold ..	124,610	Others 6/ .	3,583
U.S. Representative, Dist. 1	Heftel ...	84,552	Spillane .	24,470	Others 7/ .	6,390
U.S. Representative, Dist. 2	Akaka	118,272	Isaak	15,697	Fritts 2/ .	3,988

1/ People's.

2/ Libertarian.

3/ Hodges (People's), 14,226; Kimmel (nonpartisan), 1,433; Johnson (Libertarian), 1,404.

4/ Independents for Godly Government.

5/ Penaroza (Independents for Godly Government), 3,461; Cate (People's), 2,408; Smith (Libertarian), 2,197.

6/ Leota (nonpartisan), 1,982; Reeser (Libertarian), 1,059; Moore (Aloha Democratic), 542.

7/ Larsen (Libertarian), 4,295; Figueroa (Aloha Democratic), 2,095.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii (biennial).

Table 223.--COMPOSITION OF THE 1979 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	42	9	25	18	7
Island of residence:						
Hawaii	5	5	-	3	3	-
Maui	4	4	-	2	2	-
Lanai	-	-	-	-	-	-
Molokai	-	-	-	-	-	-
Oahu	39	30	9	19	12	7
Kauai	3	3	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1918 or earlier	2	1	1	3	2	1
1919 to 1928	9	8	1	8	6	2
1929 to 1938	15	11	4	11	7	4
1939 to 1948	15	13	2	3	3	-
1949 or later	10	9	1	-	-	-
Sex:						
Male	44	39	5	22	17	5
Female	7	3	4	3	1	2
Ethnic stock:						
Caucasian, except Portuguese	5	4	1	5	3	2
Chinese	2	2	-	3	2	1
Filipino	1	1	-	1	1	-
Hawaiian (unmixed) ..	-	-	-	-	-	-
Japanese	25	24	1	11	9	2
Korean	-	-	-	-	-	-
Negro	-	-	-	1	1	-
Portuguese	1	-	1	1	-	1
Puerto Rican	-	-	-	-	-	-
Samoan	-	-	-	-	-	-
Other (unmixed)	-	-	-	-	-	-
Mixed: Part-Hawaiian	8	6	2	3	2	1
Mixed: Non-Hawaiian	9	5	4	-	-	-
Place of birth:						
Hawaii	44	37	7	21	16	5
Mainland U.S.	6	4	2	4	2	2
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	1	1	-	-	-	-

Source: Office of the Lieutenant Governor, records.

Table 224.— PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1969 TO 1979

Regular session	House of Representatives				Senate			
	Total	Demo-crats	Repub-licans	Vacant seats	Total	Demo-crats	Repub-licans	Vacant seats
1969	51	38	12	1	25	17	8	-
1971	51	34	17	-	25	16	8	1
1973	51	35	16	-	25	17	8	-
1975	51	35	16	-	25	18	7	-
1977 1/ ..	51	41	10	-	25	18	7	-
1979	51	42	9	-	25	18	7	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1969-1977; Office of the Lieutenant Governor, records.

Table 225.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1978 AND 1979

Action	1978 regular session		1979 regular session	
	Senate	House	Senate 1/	House
Bills:				
Carried over from previous year ..	1,454	1,616	-	-
Introduced	1,092	1,339	1,825	1,759
Enacted	86	162	76	154
Vetoed	3	6	5	9
Became law	83	156	71	145
Resolutions:				
Offered	499	740	517	710
Adopted	336	442	287	397
Concurrent resolutions:				
Offered	132	150	123	183
Adopted	44	53	20	45

1/ Senate Bill 578, which proposes an amendment to the Hawaii State Constitution, was also passed.

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were eight banks with 171 branches, ten savings and loan associations with 115 branches, three trust companies, and 238 industrial loan or small loan licensees in Hawaii as of June 30, 1978. Deposits in Island banks reached $3.6 billion in 1978, compared with $1.56 billion in 1970 and $673 million in 1960. Assets of savings and loan associations stood at $2.9 billion in mid-1978, almost four times their 1970 level. There were 158 credit unions with combined assets of $704 million at the end of 1978.

The market value of stocks and bonds traded on the Honolulu Stock Exchange in 1977 amounted to $298,000, the lowest total on record, and the Exchange discontinued operations at the end of the year. The all-time high was $25.4 million in 1961. Approximately 58,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1975.

Life insurance in force in Hawaii at the end of 1977 amounted to $14.7 billion, triple the figure reported ten years earlier. For all 546 insurance companies doing business in the Islands, Hawaii premiums amounted to $488 million in 1977 and losses, claims, and benefits paid came to only $226 million. Oahu fire losses amounted to $10.0 million in fiscal 1978. Persons covered by the two major prepaid health insurance plans as of December 31, 1978 numbered 630,000, with membership dues of $157 million.

By mid-1978, more than 28,400 corporations and partnerships were registered to do business in Hawaii: 19,000 local ("domestic") corporations, 3,100 out-of-State ("foreign") corporations, and 6,400 partnerships. Business units with one or more employees in 1976 numbered 17,271; 87 had 250 or more employees. During fiscal 1978, 2,718 new local corporations were formed and 1,879 existing local corporations were dissolved or merged. Business receipts of corporations approached $9.1 billion in 1975; business receipts of proprietorships in the same year amounted to $660 million. Hawaii's largest corporation, Amfac, Inc., reported 1978 sales of $1.5 billion, with a net profit of $42 million.

Sources for statistics on these subjects include the Hawaii State Department of Regulatory Agencies (specifically its Bank Examination, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York and Honolulu Stock Exchanges, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1978.

Table 226.— BANKS: 1968 TO 1978

Year	Number, June 30		Total assets, June 30 ($1,000)	Deposits, June 30 ($1,000)				Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities		Total	Demand	Time	Government and other		
1968 ...	7	126	1,440,891	1,287,166	431,047	525,564	330,555	16,316,676	9,281,829
1969 ...	7	132	1,669,606	1,499,459	526,895	590,618	381,947	21,527,177	11,190,757
1970 ...	7	143	1,762,811	1,558,671	558,924	631,538	368,209	23,305,519	13,286,842
1971 ...	7	149	2,062,194	1,804,545	624,130	751,692	428,723	24,316,129	15,091,524
1972 ...	7	155	2,252,841	2,000,685	683,419	843,828	473,438	27,006,791	16,839,868
1973 ...	8	162	2,625,855	2,367,682	781,470	982,689	603,523	31,803,985	19,253,017
1974 ...	8	164	2,875,085	2,573,664	819,177	1,074,603	679,883	38,495,103	21,219,856
1975 ...	8	165	2,964,953	2,615,796	875,441	1,170,368	569,986	42,198,265	23,663,047
1976 ...	8	168	3,207,161	2,883,238	880,902	1,326,326	676,010	44,908,514	27,173,406
1977 ...	8	166	3,387,094	3,008,895	932,909	1,497,021	578,965	50,492,878	30,437,727
1978 ...	8	171	4,003,656	3,601,380	1,099,932	1,664,932	836,517	58,264,541	34,104,261

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 227.-- SAVINGS AND LOAN ASSOCIATIONS, TRUST COMPANIES, AND LOAN COMPANIES: 1968 TO 1978

Year (as of June 30)	Savings and loan associations				Trust companies		Industrial loan licensees		Small loan licensees	
	Number									
	Associ-ations	Branches 2/	Assets ($1,000)	Deposits 1/ ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1968	14	42	569,325	480,227	4	37,312	192	204,543	52	1,571
1969	14	44	650,398	528,570	4	44,790	198	265,310	54	1,367
1970	13	51	730,772	584,017	3	40,606	213	311,978	46	1,016
1971	13	55	869,323	716,674	3	45,049	220	371,556	47	871
1972	12	62	1,085,455	878,335	4	46,941	220	448,935	40	365
1973	12	72	1,325,331	1,032,679	3	45,809	221	549,495	24	131
1974	11	82	1,474,175	1,146,587	3	41,181	225	680,286	24	653
1975	11	90	1,650,050	1,326,024	3	46,988	235	718,010	6	67
1976	11	107	1,923,501	1,608,434	3	53,365	239	797,883	6	32
1977	11	112	2,345,999	1,952,042	3	57,911	242	742,330	-	-
1978	10	115	2,876,344	2,211,889	3	59,862	238	776,687	-	-

1/ Withdrawable shares, withdrawable deposits and investment certificates.

2/ Branches, facilities, and agencies.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 228.-- AVERAGE RATE OF RETURN ON BANK LOANS AND AVERAGE INTEREST RATE ON TIME DEPOSITS: 1968 TO 1977

[Figures are calculated using data from two reports filed annually by all FDIC-insured banks in the state--"Report of Condition" and "Report of Income."]

Year	Percent return on bank loans 1/	Percent interest on time deposits 2/
1968	8.41	4.58
1969	8.60	4.94
1970	9.19	5.67
1971	8.75	4.96
1972	8.60	4.71
1973	9.16	5.84
1974	10.30	7.41
1975	9.67	6.02
1976	9.82	5.63
1977	10.12	5.15

1/ Based on total amount of interest income from all loans and average amount of loans outstanding.

2/ Based on total amount of interest paid on time deposits and average amount of time deposits held. Data for 1976 and 1977 limited to data for time deposits of $100,000 or more.

Source: Maxwell J. Fry, "Economic Growth and Capital Shortage in Alaska, Hawaii, and Puerto Rico," Growth and Change, April 1979, pp. 17-21, espec. tables 1 and 2; Federal Deposit Insurance Corporation, Bank Operating Statistics (annual).

Table 229.-- CREDIT UNIONS: 1977 AND 1978

[As of December 31.]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1977	158	599,929,673	535,493,101
1978	158	704,130,075	626,367,918

Source: Hawaii Credit Union League, records.

Table 230.-- MARKET VALUE OF STOCKS AND BONDS TRADED ON THE HONOLULU STOCK EXCHANGE: 1970 TO 1978

[The Honolulu Stock Exchange, established in August 1898, held its final session December 30, 1977.]

Year	Value ($1,000)
1970	8,590
1971	5,533
1972	3,986
1973	1,896
1974	1,175
1975	523
1976	383
1977	298
1978	-

Source: Honolulu Stock Exchange, records.

Table 231.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1965 TO 1975

Year	Shareowners
1965	39,000
1970	74,000
1975	58,000

Source: New York Stock Exchange, Inc., Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), and Shareownership 1975 (p. 19).

Table 232.-- STOCKHOLDINGS OF HAWAII RESIDENTS IN MAJOR HAWAII COMPANIES: 1978

[Excludes stock owned by residents in their broker's name.]

Company 1/	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii (millions of dollars)	Annual dividends to Hawaii shareholders (millions of dollars)
	Number	Percent of company total	Number (millions)	Percent of company total		
Castle & Cooke	4,350	16	4.4	21	81.3	3.5
Alexander & Baldwin	4,880	51	4.4	47	73.2	5.2
Hawaii Bancorp	2,185	55	5.2	80	67.7	4.2
Hawaiian Electric	10,685	62	2.5	42	65.1	5.1
General Tel. & Elec. ...	12,165	2.8	2.2	1.6	63.9	5.0
First Hawaiian	1,500	65	2.3	75	56.3	4.1
Dillingham	5,465	38	5.2	41	43.8	2.7
Amfac	4,395	36	1.9	15	34.5	1.9
Pacific Resources	2,590	68	3.6	70	28.8	1.3
Maui Land & Pine	295	18	0.97	61	23.7	0.39
C. Brewer	1,830	48	0.79	17	11.8	-
Aloha Airlines	3,315	19	1.0	47	5.5	-
Hawaiian Airlines	925	42	0.97	61	4.8	0.15

1/ Companies listed on a Mainland stock exchange or in the national over-the-counter market. Inter-island resorts not included because of lack of data.

Source: Kit Smith, "Hawaii's Big 13 and their owners," Honolulu Advertiser, June 29, 1978, p. C-5.

Table 233.— INSURANCE BUSINESS TRANSACTED IN HAWAII: 1967 TO 1977

Calendar year	All insurance			Life insurance, excluding annuities				
	Number of companies authorized Dec. 31	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)	Number of companies 1/	Insurance written, revived, increased , or transferred ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums received ($1,000)	Claims and benefits paid ($1,000)
1967	415	162,102	74,888	139	929,044	5,102,132	80,217	32,964
1968	434	179,236	86,102	200	1,171,454	5,874,280	85,713	36,609
1969	450	207,184	98,867	213	1,289,564	6,632,539	91,402	39,703
1970	469	246,986	114,011	223	1,376,907	7,441,077	98,360	40,267
1971	485	276,707	119,880	233	1,565,272	8,127,837	106,524	45,301
1972	502	303,954	124,502	239	1,484,039	8,788,361	115,491	44,661
1973	517	316,897	132,102	262	1,935,643	9,433,897	120,229	47,980
1974	534	331,146	155,272	270	2,609,649	11,095,747	130,102	54,009
1975	537	380,480	170,561	279	2,046,479	12,650,488	138,597	53,291
1976	542	421,545	192,547	283	2,266,311	13,560,838	148,977	65,312
1977	546	488,437	225,675	285	2,436,644	14,680,847	161,725	63,040

[1] Transacting life insurance business during the year, 1958-1972; authorized, 1973 and later years. Includes fraternal benefit societies.

Source: Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 234.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1977

[In dollars.]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	488,436,583	225,675,241
Life 1/	161,108,143	62,919,345
Fraternal	616,983	121,081
Fire, marine, casualty, and miscellaneous	319,389,782	162,292,160
Accident and health	46,124,478	24,891,388
Fire	16,056,782	6,324,728
Allied lines	6,829,241	1,393,362
Homeowners multiple peril	16,732,070	7,188,916
Private passenger auto no-fault	19,341,805	9,845,537
Other private passenger automobile liability	46,444,971	27,154,767
Commercial auto no-fault	3,463,311	1,298,982
Other commercial automobile liability	13,282,642	6,951,979
Private passenger automobile physical damage	32,230,417	20,417,393
Commercial automobile physical damage	4,842,274	2,562,390
Workers' compensation	52,697,089	25,595,243
Other liability	29,515,353	6,058,991
Medical malpractice	7,514,263	1,132,123
Glass	402,857	136,169
Burglary & theft	1,227,834	427,974
Boiler & machinery	546,949	420,728
Fidelity & surety	6,389,507	3,095,555
Ocean marine	4,738,428	14,443,389
Inland marine	5,433,306	1,995,504
Earthquake	26,343	-
All other	5,549,862	957,042
Surplus lines	7,321,675	342,655

1/ Excludes annuities. Also excludes insurance on nonresidents.

Source: Report of the Insurance Commissioner of Hawaii 1978, p. 5.

Table 235.-- MISCELLANEOUS INSURANCE STATISTICS: 1977

[In millions of dollars. For insurance companies authorized in Hawaii.]

Subject	Amount
Life insurance:	
Written or transferred	2,436.6
In force, December 31	14,680.8
Premiums received	161.7
Claims and benefits paid	63.0
Insurance other than life:	
Direct premiums paid	326.7
Direct premiums earned	302.7
Direct losses paid	162.6
Direct losses incurred	194.8

Subject	Amount			
	All companies	Domestic	Foreign	Alien (U.S. business only)
Financial condition, Dec. 31:				
Assets	400,212.8	257.4	394,700.9	5,254.4
Liabilities exc. capital and surplus	360,665.1	194.5	355,857.8	4,612.9
Policyholder's surplus inc. capital	39,547.7	63.0	38,843.1	641.5
Capital	2,074.0	11.9	2,049.7	12.4
Net gain or loss	3,753.2	1.5	3,787.3	-35.6
Hawaii business:				
Direct premiums written	529.0	145.9	367.2	15.9
Claims and benefits paid	256.3	70.4	179.6	6.3
Investments in Hawaii, Dec. 31	1,944.5	88.2	1,817.5	38.8
Mortgage loans (principal indebtedness)	980.3	39.2	920.3	20.8
Collateral loans (amount lent)	1.4	0.6	0.8	-
State and county bonds 1/	197.8	11.1	186.4	0.3
Utilities stocks and bonds 1/	180.7	11.5	153.4	15.9
Industrial and misc. stocks and bonds 1/	527.4	18.8	506.7	1.9
Real estate 1/	56.9	7.0	49.9	-
Balances in Hawaii banks	12.9	10.2	2.7	-

1/ Market value (less encumbrances for real estate).

Source: Report of the Insurance Commissioner of Hawaii 1978, pp. 5, 14, 18, 19, 34, and 35, and underlying data.

Table 236.-- HEALTH INSURANCE: 1975-1976

Subject	Number
Protected population, 1976 (thousands): 1/	
Hospital expense	649
Surgical expense	644
Regular medical expense	631
Major medical expense	74
Health insurance benefit payments, 1975 (millions of dollars), total	144
Insurance companies	32
Other hospital-medical plans	112
Health insurance premiums, 1975 (millions of dollars), total	163
Insurance companies	44
Other hospital-medical plans	119
Community hospital costs, 1976:	
Average length of hospital stay (days)	6.9
Average cost to hospital (dollars) --	
Per patient day	186.80
Per patient stay	1,288.60

1/ Number of persons under age 65 protected by hospital, surgical, regular medical and major medical expense coverage, as of December 31, 1976 (unduplicated).

Source: Health Insurance Institute, Source Book of Health Insurance Data 1977-78, pp. 29, 43, 49, and 61.

Table 237.-- PREPAID HEALTH PLANS: 1970 TO 1978

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums 1/ ($1,000)
	Persons covered, end of year 2/	Membership dues 3/ ($1,000)	Persons covered 2/		Membership dues ($1,000)	
			Annual average	End of year		
1970	393,546	35,389	82,721	87,008	9,372	23,000
1971	404,293	42,443	89,934	94,009	11,503	26,556
1972	417,305	48,759	95,226	95,877	13,227	29,097
1973	432,905	55,209	96,057	96,242	14,779	31,200
1974	451,583	64,138	97,202	98,184	16,309	33,176
1975	474,265	79,827	100,766	101,827	18,592	35,564
1976	484,295	97,882	103,364	104,785	21,879	42,601
1977	507,709	113,335	106,217	107,592	25,614	46,124
1978	516,318	127,744	110,191	113,388	28,883	(NA)

NA Not available.
1/ For accident and health insurance.
2/ Subscribers and dependents, whether on a group or individual basis.
3/ Excludes investment income, membership fees, etc.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; Report of the Insurance Commissioner (annual).

Table 238.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1970 TO 1978

[Years ended June 30]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1970	6,279	4,716	1,563	-	4	4,531,168
1971	5,679	3,868	1,811	-	8	5,032,081
1972	6,379	3,952	1,838	589	7	3,527,052
1973	7,415	4,930	1,807	678	8	12,962,159
1974	6,132	3,685	1,812	635	11	6,391,520
1975	7,064	4,316	2,057	691	5	7,303,404
1976	8,157	5,278	2,166	713	7	7,369,820
1977	8,225	5,451	2,061	713	5	7,008,431
1978	7,876	5,258	1,858	760	5	9,975,951

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City & County of Honolulu, 1976-1977, pp. 266 and 273, and records.

Table 239.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1977 TO 1979

[Excludes eleemosynary corporations]

Subject	1977	1978	1979
Domestic (Hawaii) corporations:			
Formed 1/	2,204	2,718	3,233
Dissolved or merged 2/	301	1,879	1,168
On record, June 30	18,184	19,023	21,088
Foreign (non-Hawaii) corporations:			
Qualified 1/	322	340	480
Withdrawn, merged, or cancelled 2/	539	54	385
On record, June 30	2,768	3,054	3,149
Partnerships:			
Registered 1/	1,377	1,150	1,939
Dissolved or cancelled 2/	2,092	500	1,334
On record, June 30	5,710	6,360	6,965

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Regulatory Agencies, Business Registration Division, records.

Table 240.-- CHARACTERISTICS OF BUSINESS UNITS, BY COUNTIES: 1975 TO 1977

[Excludes government employees and self-employed persons.]

Year and county	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1975				
State total	17,095	252,254	543,590	2,274,957
Hawaii	1,638	18,064	35,447	147,845
Honolulu	13,322	209,981	463,986	1,937,446
Kauai	682	7,741	14,477	61,375
Maui	1,322	15,895	28,760	124,269
Statewide	131	573	920	4,023
1976				
State total	17,271	252,252	577,390	2,412,122
Hawaii	1,677	19,072	41,090	171,253
Honolulu	13,478	207,153	484,407	2,018,954
Kauai	693	8,479	17,467	73,751
Maui	1,363	17,461	34,329	147,377
Statewide	60	87	98	786
1977				
State total	18,660	264,757	633,103	2,656,779
Hawaii	1,887	20,810	46,147	194,298
Honolulu	14,282	215,699	527,903	2,201,527
Kauai	792	9,475	20,896	89,754
Maui	1,619	18,762	38,132	170,319
Statewide	80	11	26	882

Source: U.S. Bureau of the Census, County Business Patterns, 1976, Hawaii, CBP-76-13 (July 1978), p. 15, and County Business Patterns, 1977, CBP-77-13 (July 1979), p. 15.

Table 241.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1977

[Excludes government and self-employed workers.]

Major industry group	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
Total	18,660	264,757	633,103	2,656,779
Agricultural servies, forestry, fisheries...	186	1,542	3,275	13,448
Mining	9	247	886	3,949
Contract construction	1,548	20,016	77,669	308,249
Manufacturing 1/	837	23,711	65,779	273,291
Food and kindred products	204	9,362	23,262	108,040
Apparel and other textile products	136	3,541	6,005	24,702
Transportation and other public utilities ..	806	26,278	92,924	405,423
Wholesale trade	1,522	15,388	44,996	193,387
Retail trade 1/	5,230	75,159	119,500	507,116
Eating and drinking places	1,411	27,865	33,554	140,862
Finance, insurance, and real estate	2,510	23,275	60,074	244,793
Services 1/	5,533	78,581	167,143	698,221
Hotels and other lodging places	210	18,785	35,101	141,129
Health services	1,143	13,160	38,109	161,498
Nonclassifiable establishments	479	560	856	8,901

1/ Includes sugroups not shown separately.

Source: U.S. Bureau of the Census, County Business Patterns, 1977, Hawaii, CBP-77-13 (July 1979), pages 1-2.

Table 242.-- CHARACTERISTICS OF BUSINESS UNITS, BY EMPLOYMENT-SIZE CLASS: 1977

[Excludes government employees and self-employed persons.]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	18,660	264,757	2,656,779
1 to 4	9,942	19,507	198,383
5 to 9	3,741	26,639	227,712
10 to 19	2,397	34,320	303,576
20 to 49	1,642	51,581	473,440
50 to 99	589	40,853	399,043
100 to 249	257	37,656	406,119
250 to 499	52	18,556	206,514
500 to 999	27	17,331	180,468
1,000 or more	13	18,314	261,525

Source: U.S. Bureau of the Census, County Business Patterns, 1977, Hawaii, CBP-77-13 (July 1979), pages 3 and 10

Table 243.-- PROPRIETORSHIPS: 1973 AND 1975

Subject	1973	1975
Number of businesses, total	33,143	40,427
With net profit	24,817	28,096
With net loss	8,326	12,331
Business receipts, total ($ million)	696.0	660.4
Businesses with net profit ($ million)	631.9	593.7
Businesses with net loss ($ million)	64.1	66.6
Net profit reported ($ million)	163.3	180.3
Net loss reported ($ million)	19.4	27.3

Source: Hawaii State Department of Taxation, Hawaii Income Patterns -- Proprietorships (biennial report).

Table 244.-- CORPORATIONS: 1965 TO 1975

Fiscal years ended in --	Number of corporations			Business receipts 1/ ($1,000,000)			Taxable income, excluding net losses 2/ ($1,000,000)
	Total	Taxable	Nontaxable	All corporations	Taxable corporations	Nontaxable corporations	
1965	5,744	3,116	2,628	...	...	...	177.7
1966	6,109	3,344	2,765	...	...	...	181.0
1967	6,384	3,463	2,921	3,523	...	...	192.6
1968	6,841	3,948	2,893	4,031	3,113	918	231.7
1969	7,121	4,149	2,972	4,580	3,601	979	229.8
1970	7,821	4,324	3,497	5,302	3,936	1,366	224.4
1971	8,071	4,390	3,681	5,686	3,905	1,781	216.2
1972	8,441	4,666	3,775	6,112	4,144	1,968	241.4
1973	9,263	5,031	4,232	6,838	4,907	1,931	319.3
1974	10,360	5,375	4,985	8,414	6,239	2,175	568.3
1975	10,966	5,441	5,525	9,095	6,439	2,657	498.1

1/ Comparable data not available before 1967.

2/ Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Corporations (annual reports).

Table 245.-- TOTAL OPERATING REVENUES OR SALES AND NET INCOME OF SELECTED MAJOR CORPORATIONS IN HAWAII: 1977 AND 1978

[In millions of dollars]

Corporation	Total operating revenues or sales		Net income	
	1977	1978	1977	1978
Amfac, Inc.	1,322.1	1,500.7	15.1	42.4
Castle & Cooke, Inc.	1,018.8	1,329.6	45.0	47.6
Dillingham Corporation	856.9	919.7	4.3	15.4
Pacific Resources, Inc.	398.6	471.7	6.1	9.3
Alexander & Baldwin, Inc.	290.2	311.5	19.1	32.8
Hawaiian Electric Company, Inc. .	256.3	296.3	21.1	23.5
C. Brewer and Co., Ltd.	237.1	(NA)	4.9	(NA)
Hawaiian Telephone Company	195.7	232.7	26.6	38.0
Hawaii Bancorporation, Inc.	106.6	137.7	12.7	16.3
First Hawaiian, Inc.	99.1	122.1	11.2	12.8
Hawaiian Airlines, Inc.	79.5	90.5	0.6	-0.7
Maui Land & Pineapple Co., Inc. .	65.4	62.7	3.1	2.8
Amelco Corporation	54.1	60.9	-0.5	0.1
Aloha Airlines, Inc.	50.2	60.7	1.2	3.3
Interisland Resorts, Ltd.	33.7	34.9	0.4	3.9
Crown Corporation	25.2	26.6	0.4	2.1
Central Pacific Bank Hawaii	21.6	26.5	1.9	2.1
American Security Bank	21.7	25.9	2.2	2.5
City Bank	12.8	15.8	0.9	1.3
Hawaii National Bank	9.8	11.0	-0.8	0.3
Hawaiian Trust Company, Ltd.	6.0	6.3	0.8	0.8
Bank of Honolulu	2.1	2.8	0.1	0.2

Source: Compiled from annual reports by the Bank of Hawaii.

Section 16

COMMUNICATIONS

This section presents statistics on the various communications media: postal service, telephone, telegraph, radio, television, newspapers, and books.

Hawaii is served by all major communications media. In 1978 it had 76 post offices handling 267 million pieces of mail and accounting for postal receipts in excess of $49 million. There were 659,000 telephones in service (double the number eleven years earlier), 286,000 telephone homes, 1.7 billion local calls originated, 8.3 million completed inter-island calls, and 22.5 million incoming and outgoing transpacific calls. Telegraph messages to and from Hawaii in 1977 totaled 278,000. The thirty-four commercial and educational radio stations in the Islands early in 1979 included 25 on the regular broadcast band and nine FM stations. The State also had 15 television stations (13 commercial and two educational), including satellites but excluding translators. Ten cable TV companies served 97,000 subscribers. More than 96 percent of all households had television sets, and half of the adults surveyed watched three or more hours daily. Island publishers printed seven daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the three English-language dailies averaged 215,400 in 1978, compared with 197,500 a decade earlier.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, CATV Division of the Hawaii State Department of Regulatory Agencies, Hawaiian Telephone Company, and Audit Bureau of Circulations, and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1978, Section 19.

Table 246.-- POSTAL SERVICE: 1977 AND 1978

[For fiscal years ended September 30]

Year	Number of post offices at end of period 1/	Gross postal receipts ($1,000)	Pieces of mail handled (millions)
1977	76	43,790	249
1978	76	49,198	267

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

Source: U.S. Postal Service, Honolulu, records.

Table 247.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1968 TO 1978

[Data before 1971 exclude Defense Administrative Telephone Service (DATS), taken over by the Hawaiian Telephone Company in that year.]

Year	Telephones in service, December 31,			Residence main stations, Dec. 31
	State total	Oahu	Other islands	
1968	352,196	291,317	60,879	179,070
1969	381,982	314,915	67,067	188,864
1970	414,165	339,952	74,213	199,333
1971 1/ ...	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948

1/ Defense Administrative Telephone System (DATS) included beginning in 1971. DATS telephones in service numbered 4,423 (all on Oahu) as of December 31, 1971.

Source: Hawaiian Telephone Company, records.

Table 248.-- TELEPHONE CALLS: 1965 TO 1978

Year	Local 1/		Interisland		Transpacific (paid)	
	Originating	Completed	Paid 2/	Completed	Hawaii originating	Incoming and out-going 3/
1965	735,752,540	506,197,757	948,585	969,531	757,352	1,336,557
1966	786,635,580	539,632,014	1,129,492	1,153,375	957,163	1,687,105
1967	817,619,460	562,522,196	1,332,551	1,354,805	1,271,406	2,144,049
1968	870,641,810	585,071,305	1,624,206	1,649,734	1,558,008	2,594,151
1969	950,184,980	611,919,133	1,963,219	1,994,026	1,948,391	3,267,601
1970	996,125,280	631,543,433	2,288,320	2,317,727	2,257,208	3,753,449
1971 4/ ...	1,031,751,569	667,542,265	2,569,758	2,607,521	2,517,860	4,476,130
1972	1,245,894,762	838,487,175	3,072,319	3,131,881	3,055,018	5,427,667
1973	1,379,708,959	931,303,547	3,754,413	3,804,616	3,794,848	6,813,550
1974	1,438,381,373	949,331,706	4,494,314	4,564,049	4,775,288	8,619,719
1975	1,395,875,571	918,486,126	5,156,241	5,352,232	5,907,991	10,703,400
1976	1,517,336,816	1,012,063,656	5,850,827	6,139,528	7,448,194	13,621,200
1977	1,566,868,638	1,052,935,725	6,838,432	7,028,480	9,484,517	17,102,800
1978	1,719,199,638	1,139,829,360	8,086,508	8,317,301	12,231,547	22,540,000

See footnote and source on next page.

1/ Revised from 1978 edition, table 262. According to the Hawaiian Telephone Company, "Prior to 1972, our service equipment tallied terminating or completed calls, but after that date, originating calls were counted. The number of originating calls is significantly higher than the number of terminating calls since originating calls include unsuccessful calling attempts. One series can be roughly estimated from the other, and in the past, completed calls were computed as a constant 75% of originating calls.

"For pre-1972 data, if a call reached the called party's terminal equipment, it was classed as a completed call,whether any one actually picked up the receiver or not. Under this definition, busy and non-answering numbers resulted in completed calls. Certain calls terminating on toll switchboards, such as calls to the Operator and to certain large subscribers, were excluded. For the post-1972 series, a call is considered a completed call only if it is answered by a second party. Busy, non-answering, and disconnected numbers, trunk overflows, and equipment irregularities result in incompleted calls, although wrong numbers might not. Furthermore, the conversion factors are based on initial attempts to reach a given number for all years except 1972 and part of 1973, which reflect all attempts. The use of total attempts produces a completion ratio which is 2 to 3 percentage points higher than for initial attempts. As a result, the 1972 to 1973 period represents a break in both the call completion and originating call series which cannot be adjusted for."

2/ Excludes uncollectables.

3/ Includes calls paid in Hawaii and elsewhere.

4/ Defense Administrative Telephone System (DATS) taken over by Hawaiian Telephone Company in 1971.

Source: Hawaiian Telephone Company, records.

Table 249.-- TELEPHONE SERVICE, BY ISLANDS: 1978

Islands	Telephones in service, Dec. 31	Main stations, Dec. 31		Inter-island calls 1/	Trans-pacific calls 2/
		Residence	Business		
State total	659,141	285,948	71,892	8,317,301	12,231,547
Oahu	523,472	226,654	56,109	3,865,233	9,879,690
DATS 3/	25,528	-	11,968	...	...
Other Oahu .	497,944	226,654	44,141	...	...
Other islands	135,669	59,294	15,783	4,452,068	2,351,857
Hawaii	58,661	25,795	6,731	1,777,407	807,727
Maui	47,172	20,313	5,597	1,788,406	1,137,887
Lanai	857	605	105	...	...
Molokai	3,287	1,505	376	...	...
Kauai	25,692	11,076	2,974	886,255	406,243

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Paid calls originating in Hawaii, by island of origination. Oahu total includes Lanai and Molokai.

3/ Defense Area Telephone Service.

Source: Hawaiian Telephone Company, records.

Table 250.— TELEGRAPH MESSAGES: 1977 AND 1978

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1977 ...	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978 ...	271,747	137,687	54,505	83,182	134,060	69,055	65,005

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 251.-- PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1977 AND 1978

[Averages for six-month periods ended September 30.]

Year	Honolulu Advertiser 1/	Honolulu Star-Bulletin 1/	Sunday Star-Bulletin and Advertiser	Hawaii Tribune-Herald 2/	
				Daily	Sunday
1977 ...	77,597	117,560	193,143	16,346	17,698
1978 ...	80,659	117,989	198,661	16,709	18,329

1/ Published daily, Monday through Saturday.
2/ Published daily, including Sunday.
Source: Audit Bureau of Circulations data supplied by the Hawaii Newspaper Agency, Inc., and the Hawaii Tribune-Herald.

Table 252.-- PERIODICALS PUBLISHED IN HAWAII: 1979

Frequency	Newspapers 1/		Magazines and other periodicals
	English	Foreign language	
Daily or 6 times weekly	3	3	-
2 or 3 times weekly	4	-	-
Weekly	1	1	1
Semi-monthly or biweekly	-	-	17
Monthly	-	-	11
2 to 10 times annually	-	-	17
			10

1/ The daily newspapers are: Honolulu Advertiser, Honolulu Star-Bulletin, and Hawaii Tribune-Herald (Hilo), all English-language; Hawaii Hochi and Hawaii Times, both bilingual (Japanese and English); and United Chinese Press, Chinese. All but the Hawaii Tribune-Herald are published in Honolulu.
Source: Aloha United Way, Hawaii Media Guide (1979).

Table 253.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY PRESS OF HAWAII: 1977 AND 1978

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1977	470	378	39	4	140,345	575,006
1978	516	418	46	4	163,686	819,527

1/ As of June 30.
2/ Year ended June 30.
Source: The University Press of Hawaii, Annual Report (annual).

Table 254.— COMMERCIAL AND EDUCATIONAL RADIO AND TELEVISION BROADCASTING STATIONS IN HAWAII: JANUARY 1, 1979

Kind of station	Commercial stations	Educational stations
Radio, AM	25	-
Radio, FM	8	1
Television, except satellites .	7	2
Television satellites	6	-

Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, records.

Table 255.-- TELEVISION WATCHING: 1976

[Based on telephone interviews with 1,000 adults on the six largest islands, conducted in November and December 1976.]

Hours of television watched per day	Percent
Total	100.0
None	6.0
One hour or less	19.1
Two	23.5
Three	18.7
Four	16.3
Five	6.0
Six	3.6
Seven or more hours	5.3
Don't know or refused	1.5

Source: Survey & Marketing Services, Inc., Analysis of Service and Development of Performance Measurements for State of Hawaii Libraries, Vol. II, A Survey of Residents in Relation to Public Library Use (Hawaii State Department of Education, Office of Library Services, February 1978), table 4-A, p. 15.

Table 256.-- TELEVISION HOUSEHOLDS: SEPTEMBER 1, 1977 AND 1978

Year	Total households	Television households	
		Number	Percent
1977	267,100	257,500	96.4
1978	270,400	261,200	96.6

Source: NSI audience reports from A. C. Nielsen Co., cited in Standard Rate & Data Service, Inc., Spot Television Rates and Data for January 15, 1978 (p. 15) and May 15, 1979 (p. 15).

Table 257.-- BROADCAST REVENUES AND EXPENDITURES OF COMMERCIAL RADIO AND TELEVISION STATIONS: 1976 AND 1977

Category and year	Number of stations: In operation	Number of stations: Reporting	Broadcast revenues (dollars)	Broadcast expenses (dollars)
Radio:				
1976	27	27	8,636,100	10,069,359
1977	27	27	9,823,082	11,273,172
Television: 1/				
1976	10	5	16,498,018	14,546,686
1977	10	6	18,855,099	17,979,561

1/ Includes satellites.

Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, records.

Table 258.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1977 AND 1978

County	Number of companies, Dec. 31 1/		Subscribers, Dec. 31		Gross revenues ($1,000)	
	1977	1978	1977 2/	1978	1977	1978
State total ..	10	10	(NA)	97,218	7,929	10,686
Hawaii	3	3	(NA)	11,436	1,173	1,330
Maui	2	2	3,668	5,167	344	511
Honolulu	5	5	67,607	78,562	6,171	8,564
Kauai	1	1	1,952	2,053	241	281

NA Not available.

1/ State total is unduplicated figure; one company provided service to both Hawaii and Maui Counties.

2/ The previously published State total (87,187) and Hawaii County figure (13,960) were later found to be incorrect and at least 1,000 tco high.

Source: Hawaii State Department of Regulatory Agencies, CATV Division, records.

Table 259.-- POSTAGE, TELEPHONE, AND TELEGRAPH RATES, AND NEWSPAPER PRICES: 1970 TO 1979

[In dollars]

Year (as of July 1)	Postage rates (letters, < 1 oz.)		Telegraph rate per full-rate word (non-coded)	Newspaper price 1/	
	Surface	Air		Daily	Sunday
1970	0.06	0.10	0.21	0.10	0.25
1971	0.08	0.11	0.21	0.15	0.35
1972	0.08	0.11	0.21	0.15	0.35
1973	0.08	0.11	0.21	0.15	0.35
1974	0.10	0.13	0.21	0.20	0.45
1975	0.10	0.13	0.21	0.20	0.50
1976	0.13		0.21	0.20	0.50
1977	0.13		0.21	0.20	0.50
1978	0.15		0.21	0.20	0.50
1979	0.15		0.21	0.25	0.60

Year (as of July 1)	Telephone rates (including tax) for Honolulu				
	Local call, pay phone	To Hilo 2/	To San Francisco		Monthly charge 3/
			Direct dialing 4/	Operator handled 2/	
1970	0.10	0.99	...	4.29	9.90
1971	0.10	0.99	...	4.29	9.90
1972	0.10	0.99	4.29	4.29	10.12
1973	0.10	0.97	3.27	4.25	10.63
1974	0.10	0.97	2.59	3.40	10.53
1975	0.10	0.96	2.57	3.37	10.17
1976	0.10	0.95	2.39	3.34	10.07
1977	0.10	0.94	1.86	2.84	9.98
1978	0.15	0.94	1.84	2.81	11.86
1979	0.15	0.90	1.61	2.55	11.74

1/ Street sales, Honolulu Advertiser and Honolulu Star-Bulletin.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ For an individual residential line.

4/ Daytime calls, first three minutes. Direct dialing was introduced January 16, 1972.

Source: Office of the Postmaster General, records; Hawaiian Telephone Co., records; Federal Communications Commission, records; newspaper mastheads.

Section 17

ENERGY AND SCIENCE

This section presents statistics relating to electrical, gas and petroleum power and energy, and to scientific resources.

Electricity sales exceeded six billion kilowatt-hours in 1978, or 7,347 per residential customer. The total has doubled since 1968. Manufactured gas sales reached 34.9 million therms in 1978, 48 percent above the figure ten years earlier. Residential rates in 1978 averaged 5.9 cents per kilowatt-hour and 92 cents per therm, both well above the corresponding rates several years earlier.

The liquid fuel tax base for 1978 was approximately 917 million gallons, compared with 825 million in 1974 and 620 million in 1968. The 1978 total included 325 million gallons of gasoline, 473 million of aviation fuel, and 115 million of diesel oil. The average price for leaded premium gasoline rose from 48.7 cents per gallon in October 1973 to 93.1 cents in May 1979.

Total energy consumption in 1975 amounted to 209 trillion British thermal units, compared with 134 trillion BTU a decade earlier. Transportation accounted for 60 percent of the 1975 total.

The State is well served with scientific resources. A 1976 inventory reported 384 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 34,000. Forty-one patents were granted to Hawaii residents in 1978.

Information on communications, energy and science can be obtained from reports and records of the U.S. Department of Energy, Federal Power Commission, Hawaii State Department of Taxation, Hawaii State Department of Regulatory Agencies, Public Utilities Division, and individual utility companies. Detailed statistics on energy consumption, with special emphasis on petroleum products, appear in Energy Use in Hawaii, published by the State Energy Office of the Department of Planning and Economic Development in November 1977. Hawaii's Scientific Resources, 1977 Directory, issued by DPED in 1977, contains information on scientific organizations and facilities in the Islands. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1978, Sections 20 and 21.

Table 260.-- ELECTRIC UTILITIES: 1968 TO 1978

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1968 ..	202,167	171,346	30,821	894,532	3,109,256	1,083,233	2,026,023
1969 ..	210,330	178,569	31,761	896,271	3,426,052	1,174,502	2,251,550
1970 ..	219,003	186,282	32,721	1,007,021	3,758,094	1,270,732	2,487,362
1971 ..	226,514	193,043	33,471	1,016,350	4,167,127	1,375,308	2,791,819
1972 ..	236,309	201,903	34,406	1,135,055	4,562,568	1,493,840	3,068,728
1973 ..	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,978	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1968 ..	6,322	65,735	.026803	.020022	69,598	29,034	40,564
1969 ..	6,577	70,890	.026548	.019647	75,418	31,181	44,237
1970 ..	6,822	76,017	.026810	.020113	84,097	34,068	50,029
1971 ..	7,124	83,410	.028229	.021493	98,849	38,823	60,026
1972 ..	7,399	89,192	.02849	.02172	109,217	42,557	66,660
1973 ..	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 261.-- ELECTRIC UTILITIES, BY ISLANDS: 1978

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
Oahu	209,907	183,519	26,388	1,209,400	5,025,540	1,425,647	3,599,893
Hawaii	31,979	26,303	5,676	124,300	393,521	161,204	232,317
Kauai	14,526	12,186	2,340	62,080	179,299	63,495	115,804
Maui County	27,652	22,855	4,797	91,710	406,531	148,678	257,853
Lanai	853	682	171	-	6,057	3,576	2,481
Maui	24,755	20,563	4,192	85,210	375,867	134,508	241,359
Molokai	2,044	1,610	434	6,500	24,607	10,594	14,013

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	7,347	107,290	0.05883	0.04943	313,722	105,846	207,876
Oahu	7,768	136,422	0.05485	0.04530	241,267	78,198	163,069
Hawaii	6,129	40,930	0.07535	0.07140	28,733	12,146	16,587
Kauai	5,210	49,489	0.08601	0.08628	15,453	5,462	9,991
Maui County	6,505	53,753	0.06752	0.07070	28,269	10,040	18,229
Lanai	5,243	14,511	0.07380	0.08330	471	264	207
Maui	6,541	57,576	0.06643	0.06874	25,526	8,936	16,590
Molokai	6,580	32,288	0.07926	0.10222	2,272	840	1,432

1/ Based on number of customers at end of year.
Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 262.— SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1970 TO 1978

Year	Number of customers, December 31		Net input 1/ (1,000 KWH)	Power sold (1,000 KWH)	Average annual residential use (KWH)	Average residential rate 2/ (dollars per KWH)	Installed capacity 3/ (KW) 31 December
	Total	Residential only					
1970	168,531	144,854	3,494,059	3,275,673	7,478	0.02438	811,700
1971	174,300	150,285	3,844,325	3,600,728	7,776	0.02555	811,700
1972	180,794	156,249	4,175,342	3,942,679	8,108	0.02584	902,600
1973	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180
1978	209,907	183,519	5,331,724	5,025,540	7,875	0.05485	1,140,180

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate.
Source: Hawaiian Electric Co., Inc., records.

Table 263.-- GAS UTILITIES: 1968 TO 1978

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1968	36,255	34,955	1,300	23,570	11,331	12,240
1969	36,134	34,829	1,305	25,649	11,848	13,801
1970	36,142	32,163	3,979	27,831	10,891	16,940
1971	36,153	32,072	4,081	30,445	9,279	21,167
1972	36,083	31,806	4,277	33,322	9,321	24,000
1973	35,781	31,142	4,629	34,540	8,931	25,609
1974	35,228	30,620	4,608	34,363	8,096	26,267
1975	34,685	30,236	4,449	35,594	8,230	27,364
1976	34,264	29,873	4,391	35,568	8,121	27,447
1977 2/ ..	33,722	29,408	4,314	34,844	7,612	27,232
1978 2/ ..	33,413	29,091	4,322	34,919	7,388	27,532

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1968	324	9,415	.3618	.2169	6,754	4,099	2,655
1969	340	10,576	.3588	.2156	7,227	4,251	2,976
1970	339	4,257	.3619	.2227	7,714	3,941	3,773
1971	289	5,187	.3699	.2308	8,317	3,432	4,885
1972	293	5,612	.36843	.22681	8,878	3,434	5,444
1973	287	5,520	.37518	.23121	9,272	3,351	5,921
1974	264	5,700	.68361	.52267	19,264	5,535	13,729
1975	272	6,151	.81723	.63583	24,125	6,726	17,399
1976	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 2/ ..	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 2/ ..	254	6,370	.91647	.71792	26,536	6,770	19,766

1/ Based on number of customers at end of year.

2/ Data provided by Gasco, Inc., differ slightly from the Public Utilities Division data shown here.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 264.-- GAS UTILITIES, BY ISLANDS: 1978

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total ..	33,413	29,091	4,322	34,919,266	7,387,530	27,531,736
Oahu	30,659	26,726	3,933	31,841,635	6,799,646	25,041,989
Hawaii	2,126	1,799	327	2,373,192	442,880	1,930,312
Kauai	232	232	-	63,940	63,940	-
Maui	396	334	62	640,499	81,064	559,435

Island	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total ..	254	6,370	0.91647	0.71792	26,536	6,770	19,766
Oahu	254	6,367	0.92925	0.72925	24,580	6,318	18,262
Hawaii	246	5,903	0.77446	0.60164	1,504	343	1,161
Kauai	276	-	0.80996	-	52	52	-
Maui	243	9,023	0.70489	0.61212	400	57	343

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 265.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1970 TO 1978

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1970	33,851	29,880	26,696	10,026	336
1971	33,691	29,621	29,082	8,290	280
1972	33,479	29,256	31,643	8,258	282
1973	33,142	28,813	32,610	8,041	279
1974	32,455	28,200	32,166	7,522	267
1975	31,856	27,778	32,885	7,600	274
1976	31,443	27,429	32,649	7,490	276
1977	30,926	26,993	31,831	7,007	260
1978	30,659	26,722	31,842	6,797	254

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 266.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1978

Island	Power boilers	Heating boilers	Pressure vessels 1/
State total	676	2,519	4,517
Hawaii	89	234	673
Maui	59	187	362
Lanai	3	2	24
Molokai	5	29	27
Oahu	468	1,949	3,187
Kauai	52	118	244

1/ Five cubic feet or more. The 1977 figures reported in The State of Hawaii Data Book 1978, table 282, were later revised to 4,302 for the State and 332 for Maui.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, records.

Table 267.-- TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLAND: JANUARY 1979

[In dollars]

Utility and monthly use	Oahu	Hawaii 1/	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gal.	5.70	5.90	4.50	5.65	5.65	2.95
5/8-inch meter, 10,000 gal.	7.55	8.55	7.00	8.30	8.30	4.65
1-inch meter, 20,000 gal.	13.50	16.85	15.00	19.55	19.55	9.30
1 1/2-inch meter, 50,000 gal.	28.10	37.50	35.00	44.75	44.75	22.00
Electricity: 2/						
250 kilowatt-hours	18.27	25.11	26.11	21.16	29.45	21.76
500 kilowatt-hours	30.49	40.02	46.06	35.11	48.40	36.33
750 kilowatt-hours	42.81	54.93	65.40	49.12	67.70	50.94
1,000 kilowatt-hours	55.53	70.34	84.74	63.62	87.70	66.06
Gas:						
10 therms	12.19	9.56	9.35	8.02	...	...
25 therms	24.84	19.96	20.47	17.61	...	...
50 therms	46.67	36.59	38.54	33.36	...	...
100 therms	91.32	70.19	74.89	65.16	...	...
Telephone: 3/						
Individual line	11.40	10.20	9.70	9.70	8.30	7.50
Two-party line	9.35	8.55	8.20	8.20	7.05	6.40

1/ Water rates are those for South Hilo, North and South Kohala, and Ka'u Districts; for other districts, add $0.12 per 1,000 gallons. Gas rates are those for South Hilo.

2/ Includes fuel adjustment surcharge.

3/ Excludes Federal excise tax (3 percent for 1979).

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Koele Company, Inc.

Table 268.-- LIQUID FUEL TAX BASE: 1968 TO 1978

[In thousands of gallons. Excludes residual fuel, used in the generation of electrical power.]

Year reported 1/	All types	Gasoline	Diesel oil		Liq. pet. gas		Aviation fuel	Small boats	
			Non-hwy.	Hwy. use	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1968	619,803	197,663	41,213	6,566	781	253	371,686	227	1,415
1969	743,255	223,088	49,147	7,703	674	242	460,753	226	1,424
1970	754,632	235,178	58,129	8,029	814	274	450,474	214	1,519
1971	809,628	250,191	57,405	8,852	1,044	579	489,767	231	1,559
1972	827,825	261,452	65,163	9,523	1,231	702	487,743	264	1,747
1973	882,932	281,122	74,608	11,159	1,909	453	511,502	280	1,899
1974	824,653	270,267	75,124	11,539	2,093	789	463,728	312	801
1975	839,289	284,552	75,120	12,710	1,823	1,380	462,384	411	908
1976	850,261	295,704	79,884	13,561	1,858	1,054	456,819	464	917
1977	888,136	311,409	85,484	13,817	2,036	1,280	472,654	558	899
1978	917,380	324,702	99,755	15,233	1,821	1,216	473,270	445	938

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distribution" (annual report).

Table 269.-- DOMESTIC DEMAND FOR PETROLEUM PRODUCTS: 1976

[Barrels daily]

Item	Total	Military 1/	All other
Total petroleum	90,363	2,642	87,721
Liquified gases	1,128	-	1,128
Fuel uses	1,128	-	1,128
Other	-	-	-
Gasoline	19,891	596	19,295
Motor	19,637	596	19,041
Aviation	254	-	254
Special naphthas and solvents	112	-	112
Jet fuel	29,811	1,705	28,106
Naphtha-type	1,694	1,694	-
Kerosine-type	28,117	11	28,106
Kerosine	246	8	238
Distillate fuel oil	6,571	333	6,238
Lubricating oils and greases	276	-	276
Residual fuel oil	30,664	-	30,664
Asphalt and road oil	1,128	-	1,128
All other finished and unfinished oils	-	-	-
Still gas	536	-	536

1/ Excludes imports and direct shipments.

Source: U.S. Department of Energy, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V, Year 1976," Energy Data Reports, February 17, 1978, pp. 3-4.

Table 270.-- GROSS ENERGY CONSUMPTION, BY KIND OF FUEL: 1960 TO 1975

Year	Gross energy consumption (trillions of Btu)	Gasoline (millions of gallons)	Distillate oil and kerosene (millions of barrels)	Diesel fuel (millions of barrels)	Residual oil (millions of barrels)
1960 ...	100.27	219.26	0.49	0.48	5.61
1961 ...	119.07	240.50	1.26	0.48	6.65
1962 ...	111.12	182.45	1.23	0.46	6.72
1963 ...	118.12	170.64	1.01	0.42	6.94
1964 ...	127.49	169.07	1.37	0.44	7.54
1965 ...	134.23	180.21	1.11	0.56	7.67
1966 ...	147.73	195.51	0.84	0.56	8.27
1967 ...	166.68	210.75	0.65	0.58	8.72
1968 ...	185.88	209.14	0.81	0.60	9.73
1969 ...	193.92	221.63	0.90	0.71	10.00
1970 ...	198.51	242.44	1.32	0.53	10.16
1971 ...	208.35	252.46	1.18	0.61	10.63
1972 ...	212.28	268.25	1.08	0.60	11.32
1973 ...	217.91	285.08	1.22	0.66	11.58
1974 ...	206.37	275.91	1.23	0.74	11.22
1975 ...	208.86	287.74	2.00	0.64	10.73

Year	Liquid petroleum gas (millions of gallons)	Jet fuel (millions of gallons)	Natural gas (billions of cu. ft.)	Coal (millions of short tons)	Nuclear and hydro electricity (billions of kWh)	Other fuels (trillions of Btu)
1960 ...	4.70	216.44	-	-	-	3.66
1961 ...	5.86	245.51	-	-	-	4.89
1962 ...	7.21	238.73	-	-	-	4.81
1963 ...	9.71	300.12	-	-	0.02	4.86
1964 ...	10.87	320.80	-	-	0.03	5.40
1965 ...	9.19	358.51	-	-	0.02	6.07
1966 ...	10.14	426.25	-	-	0.03	6.27
1967 ...	11.95	542.93	-	-	0.02	6.05
1968 ...	12.48	628.15	-	-	0.02	6.83
1969 ...	38.30	633.19	-	-	0.02	7.19
1970 ...	39.46	622.28	-	-	0.02	7.95
1971 ...	40.46	672.85	-	-	0.02	7.17
1972 ...	39.69	655.93	-	-	0.02	7.71
1973 ...	39.54	659.87	-	-	0.02	7.83
1974 ...	40.56	597.07	-	-	0.02	7.39
1975 ...	36.61	598.22	-	-	0.02	7.86

Source: U.S. Department of Energy, Energy Information Administration, Federal Energy Data System (FEDS), Statistical Summary, February 1978, pp. 150-151.

Table 271.-- ENERGY CONSUMPTION, BY FUEL AND CONSUMING SECTOR: 1975

[In trillions of Btu]

Fuel	All sectors	Electric utilities	Residential	Commercial	Industrial	Transportation
All fuels 1/	208.86	58.58	8.06	7.60	27.46	125.50
Gasoline	35.95	-	-	0.52	0.28	35.15
Excluding aviation	35.60	-	-	0.52	0.28	34.80
Aviation	0.35	-	-	-	-	0.35
Distillate oil and kerosene	11.63	5.99	0.99	0.01	1.19	5.02
Diesel fuel	3.74	-	-	-	2.18	
Residual oil	67.43	52.40	-	0.57	7.92	6.55
Liquid petroleum gas 2/	3.50	-	1.36	0.15	1.95	0.22
Jet fuel	78.55	-	-	-	-	78.55
Natural gas	-	-	-	-	-	-
Coal and coke	-	-	-	-	-	-
Nuclear and hydro electricity	0.20	0.20	-	-	-	-
Electricity purchased 1/ ...	-	-	5.70	3.78	8.67	-
Asphalt and road oil	2.58	-	-	2.58	-	-
Feedstocks	5.28	-	-	-	5.28	-
Electric sales	18.15	18.15	-	-	-	-

1/ Total for all sectors excludes electricity purchased.

2/ Detail does not add to indicated total, for unstated reason.

Source: U.S. Department of Energy, Energy Information Administration, Federal Energy Data System (FEDS), Statistical Summary, February 1978, pp. 151, 293, 435, 577, 719, and 861.

Table 272.-- BUNKER OIL LADEN IN HONOLULU CUSTOMS DISTRICT ON VESSELS ENGAGED IN FOREIGN TRADE: 1977 AND 1978

[In barrels of 42 gallons]

Year	Total	American vessels		Foreign vessels	
		Fuel oil	Diesel oil	Fuel oil	Diesel oil
1977 ...	1,728,413	241,964	35,068	376,207	1,075,174
1978 ...	2,049,939	261,467	18,943	632,127	1,137,402

Source: U.S. Bureau of the Census, United States Foreign Trade, Bunker Fuels, Annual 1977 (FT810-77-13, May 1978) and Annual 1978 (FT810-78-13, July 1979).

Table 273.-- AVERAGE PRICE PER GALLON FOR GASOLINE, FOR URBAN OAHU: 1973 TO 1979

[In dollars. Average prices include all applicable taxes.]

Year	Leaded regular gasoline 1/		Unleaded regular gasoline 2/		Premium gasoline 1/	
	April	October	April	October	April	October
1973	...	0.452	...	...	...	0.487
1974	0.568	.593	...	...	0.602	.623
1975	.623	.698	...	...	.654	.740
1976	.673	.704	0.682	0.712	.710	.739
1977	.711	.721	.723	.740	.752	.765
1978 3/	.727	.771	.750	.781	.777	.812
1979 3/	.851	...	.875	...	.899	...

1/ Earliest available month is October 1973.

2/ Earliest available month is January 1976 ($0.696).

3/ Data for July 1978 and later not directly comparable to earlier data.

Source: U.S. Bureau of Labor Statistics, Retail Prices and Indexes of Fuels and Utilities, Residential Usage (monthly, through June 1978) and records.

Table 274.— QUANTITY AND COST OF PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING INDUSTRIES: 1976

Type of fuel or energy	Quantity, all mfg. industries		Cost (million dollars)	
	Unit	Amount	Total, all mfg. industries	Food and kindred products
Purchased fuels and electric energy	Trillion Btu's	9.6	27.8	15.3
Purchased fuels	Trillion Btu's	8.1	15.4	10.3
Distillate fuel oil	1,000 barrels	280.3	3.4	3.1
Residual fuel oil	1,000 barrels	798.3	10.0	6.0
Coal and coke	1,000 short tons	–	–	–
Natural gas	Billion cubic feet	0.6	0.5	0.3
Other fuels	. . .	...	1.0	0.8
Fuels not specified by kind	. . .	...	0.5	0.1
Electric energy:				
Purchased	Million kWh	433.9	12.4	5.1
Generated less sold	Million kWh	315.4	...	...

Source: U.S. Bureau of the Census, Annual Survey of Manufactures 1976; Fuels and Electric Energy Consumed, M76 (AS)-4.2, pages 106-107.

Table 275.-- SCIENTIFIC ORGANIZATIONS AND RESOURCES: 1976

Type of organization	Number of organizations	Employment		
		Total	Professional	Technical
Total employing organizations	384	34,449	7,346	10,729
Organization with scientific capabilities	98	14,528	2,447	3,253
Computer science companies	54	2,510	697	1,096
R&D and allied companies	43	1,541	453	400
Testing laboratories	31	1,060	305	288
Private research agencies	39	778	299	118
Government agencies	119	14,032	3,145	5,574
Federal civilian	24	1,424	257	715
Military	10	6,118	676	3,705
State, except University of Hawaii	36	3,218	1,087	613
University of Hawaii	33	1,497	756	294
County	16	1,775	369	247

Subject	Number	Subject	Number
Professional associations:		Colleges and universities:	
Number of associations	44	Number of units	34
Regular membership	11,749	Full-time enrollment 1/	37,770
Associate membership	753	Part-time enrollment 1/	38,805
Scientific libraries:		Business and technical schools:	
Number of libraries	22	Number of units	4
Number of scientific books	846,436	Full-time enrollment 1/	763
		Part-time enrollment 1/	162

1/ Spring 1976. Because of differences in coverage and definition, these data differ from those in Section 3.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Scientific Resources. 1977 Directory, 8th edition (1977), p. 5.

Table 276.-- FEDERAL R&D OBLIGATIONS: 1965 TO 1976

Year	Millions of dollars
1965	41.5
1971	38.3
1975	43.0
1976	45.5

Source: National Science Foundation, _Federal Funds for Research, Development, and Other Scientific Activities, Fiscal Years 1976, 1977, and 1978_ (Surveys of Science Resources Series, NSF 78-300, Vol. XXVI), p. 36.

Table 277.-- PATENTS GRANTED TO HAWAII RESIDENTS: 1970 TO 1978

Year	Patents
1970	50
1971	37
1972	26
1973	50
1974 1/	55
1975 1/	61
1976	51
1977	43
1978	41

1/ Fiscal year ended June 30. Includes reissues.

Source: _Annual Report of the Commissioner of Patents_; U.S. Department of Commerce, Patent and Trademark Office, records.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic.

Motor vehicle registration in Hawaii increased from 354,000 in 1968 to 477,000 in 1973 and 580,000 in 1978. Vehicle miles rose during the same period from 2.9 billion to 4.7 billion. Hawaii residents purchased 46,000 new passenger cars in 1978 and scrapped or shipped out approximately 34,000. By the end of 1978, 541,000 licensed drivers had access to 3,862 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 67.7 million in 1978. Registered bicycles numbered 108,000 in 1974 and 81,000 in 1978.

All scheduled interisland travel is now by air. Interisland steamer service was discontinued in 1949; hydrofoil service was initiated between Honolulu and other Island ports in 1975 and suspended early in 1978. In 1978, the two scheduled airlines and a number of air taxis reported 7.3 million interisland passengers, more than three times their 1968 total, and carried 41,000 tons of cargo. The State has 11 commercial airports, 49 general aviation, military or private airports, 14 civilian heliports, 3,586 active pilots, and 541 active civil aircraft.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 4,800 in 1978, air passengers increased during the same 19-year span from 224,000 to 9.04 million. Overseas cargo received in the State in 1977 amounted to 66,000 tons by air and 9.5 million tons by ship.

Undocumented State-registered vessels as of December 31, 1978 numbered 13,695, compared with 8,042 in 1970. Median length was 17-1/2 feet, and four-fifths were stored on land. There were also 987 documented vessels in the State in 1978, almost double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Land, Water, and Air Transportation Facilities Divisions. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, Honolulu Department of Transportation Services, County finance departments, Cardinal Mailing Services, and individual transportation companies. Data for the entire period of record appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1978, Sections 22 and 23.

Table 278.-- MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1978

Year (December 31)	Total	Paved	Unpaved
1970	3,529.10	3,047.10	482.00
1971	3,598.95	3,098.51	500.44
1972	3,611.48	3,117.38	494.10
1973	3,665.84	3,171.58	494.26
1974	3,659.44	3,269.83	389.61
1975	3,743.44	3,354.59	388.85
1976	3,797.24	3,436.53	360.71
1977	3,827.65	3,505.89	321.76
1978 1/	3,862.43	3,540.67	321.76
ISLAND: 1978			
Hawaii	1,450.98	1,291.29	159.69
Maui	583.90	507.15	76.75
Lanai	45.79	31.79	14.00
Molokai	125.40	113.40	12.00
Oahu	1,322.88	1,286.40	36.48
Kauai	333.48	310.64	22.84
Niihau	-	-	-

1/ Includes 36.27 miles of freeways (all on Oahu) and 11,220 feet of highway tunnel (10,903 on Oahu and 317 on Maui, counting each bore separately).

Source: Hawaii State Department of Transportation, Division of Land Transportation Facilities, records.

Table 279.— SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1977

Island	Signalized inter- sections	Metered parking spaces	
		On- street	Off- street
State total	523	3,542	4,092
Hawaii	28	534	409
Maui	13	-	26
Lanai	-	-	-
Molokai	-	-	18
Oahu	477	3,008	3,568
Kauai	5	-	71
Niihau	-	-	-

Source: Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 280.— MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES: 1968 TO 1978

Year	Motor vehicle registration 1/			Highway fuel consumption 2/		Vehicle miles of travel 3/	
	Total	Passenger cars	Other motor vehicles 4/	Total (1,000 gallons)	Gallons per vehicle	Total (millions)	Per vehicle
1968	353,888	315,024	38,864	209,597	592	2,934.4	8,292
1969	373,541	332,213	41,328	225,917	605	3,162.8	8,467
1970	404,463	358,255	46,208	243,482	602	3,408.9	8,428
1971	425,210	375,205	50,005	261,476	615	3,660.7	8,609
1972	446,355	392,179	54,176	268,407	601	3,757.7	8,414
1973	476,759	416,663	60,096	289,847	608	4,057.9	8,511
1974 5/ ...	487,647	423,642	64,005	279,996	574	3,919.9	8,038
1975 5/ ...	501,783	434,088	67,695	296,160	590	4,146.2	8,263
1976 5/ ...	536,514	462,685	73,829	308,151	574	4,314.1	8,041
1977 5/ ...	561,575	484,224	77,351	324,449	578	4,542.3	8,088
1978 5/ ...	580,347	495,845	84,502	338,440	583	4,738.2	8,164

1/ Taxable and non-taxable. Excludes military vehicles, motorcycles, motor scooters, trailers, and semi-trailers.

2/ Includes gasoline, diesel oil, and butane gas.

3/ Based on an average of 14 miles per gallon.

4/ Ambulances and hearses, buses, trucks, and tractor-trucks.

5/ Adjusted to include vehicles operated by members of the armed forces in Hawaii but registered elsewhere.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, annual releases and records.

Table 281.-- VEHICLE REGISTRATION AND USE AND DRIVERS LICENSES IN FORCE, BY COUNTIES: 1978

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered, total 1/	580,347	432,954	62,937	28,080	56,376
Passenger cars	495,845	380,311	48,364	22,148	45,022
Ambulances and hearses	86	57	13	8	8
Buses	2,952	2,251	285	130	286
Trucks	79,607	49,300	13,659	5,789	10,859
Tractor-trucks	1,857	1,035	616	5	201
Other motor vehicles	-	-	-	-	-
Other vehicles registered: 1/					
Trailers and semi-trailers	16,192	9,512	3,169	1,857	1,654
Motorcycles and motor scooters	9,851	8,177	616	284	774
Highway fuel consumption (1,000 gal.)	338,440	251,583	39,744	15,601	31,512
Per motor vehicle (gallons)	583	581	631	556	559
Vehicle miles (millions)	4,738.2	3,522.2	556.4	218.4	441.2
Per vehicle (miles)	8,164	8,135	8,841	7,778	7,826
Drivers licenses in force, Dec. 31	541,036	419,850	53,479	24,370	43,337

1/ Taxable and non-taxable. Includes vehicles operated by members of the armed forces in Hawaii but registered elsewhere.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, records.

Table 282.-- TAXIS IN OPERATION, BY ISLANDS: 1977 AND 1978

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1977	1,821	63	98	2	3	1,609	46
1978	1,771	63	99	1	3	1,563	42

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 283.-- REGISTERED BICYCLES, BY ISLANDS: 1977 AND 1978

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1977	84,148	2,815	3,169	171	167	75,276	2,550
1978	81,377	2,899	2,493	182	137	73,426	2,240

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 284.-- COMPONENTS OF CHANGE IN PASSENGER MOTOR VEHICLE REGISTRATION: 1970 TO 1978

Year	Number of passenger cars			Out-shipments of automobiles and auto parts (tons)
	Net increase 1/	New registrations	Scrapped or shipped out	
1970	26,042	36,627	10,585	11,050
1971	16,950	35,984	19,034	16,157
1972	16,974	37,484	20,510	14,394
1973	24,484	41,919	17,435	16,420
1974	6,979	30,932	23,953	31,423
1975	10,446	33,693	23,247	21,396
1976	28,597	38,006	9,409	18,627
1977	21,539	44,482	22,943	24,846
1978	11,621	45,993	34,372	(NA)

NA Not available.

1/ From previous registration year.

Source: Net increase from Hawaii State Department of Transportation, Land Transportation Facilities Division. New registrations from R. L. Polk & Co. data in the Federal Reserve Bank of San Francisco, Western Economic Indicators (bimonthly) and data from Cardinal Mailing Services, Ltd., in this section. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual). Vehicles scrapped or shipped out computed as a residual.

Table 285.— NEW PASSENGER CAR AND TRUCK REGISTRATIONS, DOMESTIC AND FOREIGN, BY COUNTIES: 1978

Kind, origin and make of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Passenger cars	45,993	34,720	4,519	1,665	5,089
Domestic 1/	25,978	19,525	2,717	1,022	2,714
Buick	1,603	1,374	67	37	125
Chevrolet	5,886	4,630	614	179	463
Dodge	2,889	1,588	559	271	471
Ford	6,737	5,433	518	179	607
Mercury	1,766	1,423	167	74	102
Oldsmobile	1,260	1,031	78	23	128
Plymouth	1,800	1,204	258	92	246
Pontiac	1,538	1,382	51	30	75
Other makes 2/	2,499	1,460	405	137	497
Foreign 1/	20,015	15,195	1,802	643	2,375
Datsun	4,151	2,982	141	125	903
Honda	2,460	2,051	109	116	184
Mazda	1,987	1,545	216	62	164
Toyota	5,308	3,863	953	131	361
Volkswagen	3,456	2,637	209	149	461
Other makes 2/	2,653	2,117	174	60	302
Trucks	7,024	4,560	1,056	341	1,067
Domestic 1/	4,591	2,946	759	213	673
Chevrolet	1,800	1,270	236	88	206
Ford	1,865	1,186	317	75	287
Other makes 2/	926	490	206	50	180
Foreign 1/	2,433	1,614	297	128	394
Datsun	1,290	889	143	58	200
Other makes 2/	1,143	725	154	70	194

1/ Vehicles manufactured abroad but sold under domestic nameplates (such as the Dodge Colt or Ford Fiesta) are included in the domestic subtotals.

2/ Under 1,000 Statewide sales.

Source: Motor Vehicle Registrations-Hawaii, A Division of Cardinal Mailing Services, Ltd., release for December 1978.

Table 286.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1970 TO 1978

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1970	18,172	136	11,743	153
1971	18,048	131	10,934	154
1972	18,259	126	11,141	146
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
COUNTIES: 1978				
Honolulu	13,889	100	9,689	108
Hawaii	2,098	37	1,761	44
Kauai	757	12	509	15
Maui	1,801	26	1,368	28

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source: Hawaii State Department of Transportation, Land Transportation Facilities Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 287.-- BUS SERVICE, FOR OAHU: 1970 TO 1978

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by Mass Transit Lines beginning March 1, 1971.]

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 1/	Cash fares, Dec. 31 (cents)	
				Full	School
1970 2/	141	4,611,357	30,434,906	25	15
1971 3/	108	2,986,724	19,413,259	25	10
1972 4/	143	4,964,044	31,031,764	25/50	10/25
1973 5/	315	7,973,393	36,741,009	25/50	10/25
1974 6/	333	11,670,774	50,519,626	25	10
1975	350	13,328,501	58,295,732	25	10
1976	350	15,547,127	64,585,334	25	10
1977	350	16,242,537	66,311,882	25	10
1978	350	15,991,798	67,746,396	25	10

1/ All categories of service.

2/ Passenger total excludes 2,277,502 zone fares. Under HRT, service was limited largely to Honolulu and Halawa. Service was suspended during a one-day strike in August 1970.

3/ Bus service by HRT was terminated by a strike that began January 1, 1971. MTL commenced service March 1, 1971, with routes extending from Kalihi to Hawaii Kai.

4/ Service provided from Pearl Harbor to Hawaii Kai; extended to Windward Oahu and North Shore on August 13, 1972.

5/ Service extended to Waianae coast in April 1973.

6/ Islandwide service after March 15, 1974, when MTL began operation of Leeward Bus Company lines.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 288.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1977 AND 1978

[Calendar year data for Mass Transit Lines.]

Fare category	1977	1978
All passengers	66,311,882	67,746,396
Adults, full fare	32,223,015	32,873,747
Students	14,899,375	15,370,817
School subsidy	76,532	62,610
Stadium express	11,575	14,824
Senior citizens	7,337,243	7,461,545
Chartered service	34,428	22,651
Revenue transfers	-	-
Free transfers	11,729,714	11,940,202

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 289.-- BUS REVENUES, FOR OAHU: 1971 TO 1978

[In dollars. Fiscal year data for Mass Transit Lines.]

Year	Total revenue	Farebox	Miscellaneous
1971 1/	$1,246,351	$1,241,929	4,422
1972	4,445,817	4,429,757	16,060
1973	5,254,908	5,231,596	23,312
1974	6,807,147	6,786,490	20,657
1975	7,990,505	7,951,162	39,343
1976	9,007,134	8,970,281	36,853
1977	9,629,349	9,554,925	74,424
1978	9,686,876	9,667,813	19,063

1/ March through June.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 290.-- CHARACTERISTICS OF TRAVEL TO WORK, FOR OAHU: 1976

Major mode of transportation from home to work	Number of workers (thousands)	Median distance from home to work (miles)	Median time taken to get to work (minutes)
All workers	308	...	...
Not working at home	298	6.5	21.6
Workers using vehicles	286	7.0	22.2
Auto	230	7.2	21.1
Truck	17	12.6	26.8
Auto or truck	246	7.4	21.4
Drives alone	171	7.3	20.8
Carpool	75	7.7	23.3
Shares driving	15	11.2	26.9
Drives others	29	8.5	25.5
Rides with someone	31	5.5	19.8
Public transportation 1/	34	4.8	29.0
Bus	34	4.9	29.1
Other means 2/	6	3.3	16.4
Bicycle	3	...	...
Walks only	12	0.6	9.3
Works at home	4	...	...
Not reported	6	5.5	18.2

1/ Includes workers using taxicabs.

2/ Includes workers using motorcycles and all other means not listed.

Source: U.S. Bureau of the Census, "Selected Characteristics of Travel to Work in 20 Metropolitan Areas: 1976," Current Population Reports, Special Studies, Series P-23, No. 72, September 1978.

Table 291.-- RAILROADS: 1977 AND 1978

Calendar year	Number of railroads 1/	Miles of track	Passengers
1977	1	6	89,110
1978	1	6	97,873

1/ The only railroad in operation during these years was the Lahaina, Kaanapali & Pacific Railroad on Maui.

Source: Lahaina, Kaanapali & Pacific Railroad, records.

Table 292.-- INTERISLAND AND TRANSPACIFIC REVENUE PASSENGERS, BY MODE OF TRAVEL: 1968 TO 1978

Year	Interisland passengers		Transpacific passengers				
			Surface 3/		Air 4/		
	Surface arrivals 1/	Air arrivals 2/	Arrivals	Departures	Arrivals	Departures	Through
1968	-	2,347,949	26,603	22,496	1,358,335	1,307,447	183,864
1969	-	2,724,622	24,089	21,339	1,766,720	1,769,087	270,340
1970	-	2,992,777	13,267	13,699	2,190,809	2,158,577	893,890
1971	-	3,380,031	8,943	8,024	2,296,119	2,304,570	729,237
1972	-	4,093,338	10,725	8,820	2,540,472	2,550,199	733,362
1973	-	4,809,097	9,742	7,585	2,866,003	2,913,446	870,378
1974	-	5,174,914	5,756	5,975	3,009,769	2,964,992	885,122
1975	71,807	5,321,616	5,795	5,284	3,181,580	3,134,774	956,576
1976	196,366	5,873,138	5,829	5,987	3,496,645	3,432,908	816,915
1977	270,128	6,413,847	5,940	5,476	3,667,756	3,615,717	714,150
1978	(NA)	7,341,815	4,763	4,151	4,131,466	4,054,544	854,276

NA Not available.

1/ Scheduled interisland passenger service by hydrofoil vessels was begun on June 15, 1975 and terminated January 15, 1978.

2/ Excludes nonrevenue passengers before 1970. Air taxi service seriously underreported before 1977.

3/ Port of Honolulu only. Excludes through passengers. For years ended June 30.

4/ Includes nonrevenue passengers beginning in 1970. Treatment of through passengers was apparently changed after 1959 and again after 1969.

Source: Hawaii State Department of Transportation, records.

Table 293.-- AIRPORTS AND HELIPORTS, BY CONTROL: JUNE 30, 1979

Type	All facilities	State		Military	Semi-private	Private 1/
		Commercial	General aviation			
Airports	60	11	3	6	3	37
Heliports.......	14	4	-	(NA)	(NA)	10

NA Not available.

1/ Data for private airports and heliports are estimates.

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 294.-- PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS: 1968 TO 1978

Year	Active pilots, Dec. 31 1/	U.S. active civil aircraft, Dec. 31		Aircraft operations 2/		
		Air carrier	General aviation	Honolulu International Airport	Gen. Lyman Field, Hilo	Kahului Airport
1968	1,744	22	188	340,079	46,958	72,740
1969	1,976	20	206	339,645	46,339	69,135
1970	2,218	20	241	300,629	52,183	77,451
1971	2,409	17	249	294,874	56,167	76,768
1972	2,526	(NA)	(NA)	297,861	50,333	75,467
1973	2,786	291		309,144	48,138	75,478
1974	2,956	16	308	305,724	47,715	75,186
1975	2,902	17	341	319,781	51,145	77,062
1976	3,037	21	365	320,565	52,679	90,455
1977	3,241	21	*541	329,926	60,377	100,655
1978	3,586	18	(NA)	379,106	52,677	125,291

* Estimated from a sample survey with a standard error of 255.

NA Not available.

1/ Data for 1969, 1971 and 1973-1977 include active pilots in American Samoa, Guam, and the Trust Territory as well as those in Hawaii.

2/ An aircraft operation is an aircraft arrival or departure.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records; Hawaii State Department of Transportation, Air Transportation Facilities Division, records.

Table 295.-- AIRCRAFT OPERATIONS, BY TYPE, FOR SPECIFIED AIRPORTS: 1978

Airport	All operations	Air carrier	Air taxi	General aviation	Military
Honolulu Int. Airport ..	379,106	121,056	85,552	137,593	34,905
Gen. Lyman Field	52,677	20,448	6,582	16,884	8,763
Kahului Airport	125,291	43,052	37,441	37,119	7,679
Lihue Airport	74,583	26,841	27,583	17,449	2,710
Ke-ahole Airport	91,033	16,369	19,740	40,542	14,382
Molokai Airport 1/	32,801	1,982	22,864	6,543	1,412

1/ FAA tower opened July 13, 1978.
Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, "Hawaii State Owned Airport Statistics, Calendar Year 1978" (tabular release).

Table 296.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1968 TO 1978

Subject	1968	1977	1978
Number of airlines 1/	2	2	2
Aircraft revenue departures 2/ (1,000)	69.4	79.5	83.3
Aircraft revenue miles 2/ (1,000)	8,131	9,624	9,962
Average airborne speed 2/ (miles per hour) .	257	324	323
Average available seats per aircraft 2/	75.8	125.8	128.6
Revenue passengers: 2/			
Enplanements 3/ (1,000)	1,961	5,724	6,488
Load factor (percent)	51.9	65.9	66.4
Revenue ton-miles (1,000):			
Freight plus express	2,273	6,037	3,832
Mail	894	1,215	1,083
Number of employees 4/	1,891	2,444	2,606
Operating revenues ($1,000)	29,746	129,138	150,543
Operating profit or loss ($1,000)	-707	990	4,310
Average passenger revenues per revenue passenger-mile 2/ (cents)	9.1	14.4	16.0
Average freight revenues per revenue ton-mile 2/ (dollars)	0.69	1.04	1.39

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.
2/ Scheduled service only.
3/ Originations for 1968.
4/ December, 1968 and 1977; September, 1978
Source: Civil Aeronautics Board, Handbook of Airline Statistics 1973, and records.

Table 297.-- AIR CARGO AND AIRMAIL: 1970 TO 1978

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland 1/	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1970	37,553	54,285	21,362	18,109	52,139	14,141
1971 2/ .	67,131	116,591	17,915	24,883	51,389	14,332
1972 3/ .	55,908	108,178	16,665	22,739	59,900	14,774
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338	36,934		81,515	17,830
1976	118,478	136,017	39,407		86,818	19,024
1977	132,401	133,352	36,938		82,676	17,065
1978	139,004	135,347	37,061		82,872	15,199

1/ Air taxi service seriously underreported before 1977.

2/ Data reflect the shipping strike of July 1, 1971 - October 6, 1971.

3/ Data reflect the shipping strike of January 17 - February 19 and October 25 - December 7, 1972.

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, tabular releases and records.

Table 298.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1978

Airport	Passengers 1/		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,131,466	4,054,544	135,347	139,004	37,061	
Honolulu	3,998,692	3,880,091	129,358	111,941	36,743	
Gen. Lyman	124,749	166,428	5,989	27,063	318	
Kahului	8,025	8,025	(NA)	(NA)	(NA)	
INTERISLAND						
Total	7,341,815	7,341,815	82,872	82,872	15,199	15,199
Honolulu	2,931,583	3,039,122	27,244	49,632	4,697	10,295
Gen. Lyman	663,235	538,691	12,443	15,130	2,672	1,660
Upolu	1,263	1,130	-	-	-	-
Waimea-Kohala ...	13,708	11,379	256	501	1	2
Ke-ahole	601,823	651,554	6,114	4,057	1,591	600
Kahului	1,664,373	1,649,418	22,650	9,262	3,408	1,648
Hana	13,422	12,331	-	-	-	-
Kaanapali	56,440	57,043	-	-	-	-
Molokai	144,234	132,438	955	749	423	84
Kalaupapa	5,368	4,634	151	75	21	7
Lanai	26,636	27,751	898	241	151	35
Lihue	1,212,717	1,211,240	12,139	3,220	2,235	868
Other airports ..	7,013	5,084	22	5	-	-

1/ Revenue and non-revenue, including Military Airlift Command (MAC). Excludes overseas passengers in transit (854,276).

Source: Hawaii State Department of Transportation, Air Transportation Facilities Division, "Hawaii State Owned Airport Statistics, Calendar Year 1978" (tabular release).

Table 299.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1975

[Top city pairs originating or terminating passengers and revenue passenger miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions.]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Lihue	102	13	573	327	59,881
Honolulu-Hilo	216	19	480	158	113,312
Honolulu-Los Angeles	2,556	21	477	5	1,235,464
Honolulu-Kahului	100	23	449	434	44,944
Honolulu-San Francisco	2,397	46	290	11	711,593
Honolulu-Kona	169	75	214	516	37,583
Honolulu-Seattle	2,678	151	134	30	367,548
Honolulu-New York	4,973	200	109	14	547,454
Honolulu-Chicago	4,251	220	101	23	435,012
Kahului-Los Angeles	2,486	230	95	58	255,312
Lihue-Los Angeles	2,628	286	79	72	212,994
Honolulu-San Diego	2,614	374	62	99	[illegible]295
Honolulu-Washington	4,833	669	36	94	1[illegible],899
Honolulu-Boston	5,095	738	32	97	167,155

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger miles.

Source: Civil Aeronautics Board, Supplement to the Handbook of Airline Statistics, Calendar Years 1975 and 1976, pp. 109-112.

Table 300.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SAN FRANCISCO-HONOLULU FLIGHTS: 1972 TO 1979

[For Pan American World Airways unless otherwise specified]

Subject	Effective date of change in fare				
	July 25, 1972	May 12, 1973	Sept. 1, 1973	June 1, 1974	Jan. 1, 1977
First class fare 2/	193.08	193.67	193.67	204.67	208.08
Fare	190.00	190.00	190.00	201.00	205.00
Tax	3.08	3.08	3.08	3.08	3.08
Security charge	-	0.59	0.59	0.59	-
Economy fare, weekends 2/ ..	125.04	125.63	134.64	142.64	145.06
Fare	122.00	122.00	131.00	139.00	142.00
Tax	3.04	3.04	3.05	3.05	3.06
Security charge	-	0.59	0.59	0.59	-
Economy fare, weekdays 2/ ..	110.04	110.63	119.63	126.64	129.05
Fare	107.00	107.00	116.00	123.00	126.00
Tax	3.04	3.04	3.04	3.05	3.05
Security charge	-	0.59	0.59	0.59	-
Thrift fare, weekends 2/ ...	118.04	118.63	127.63	134.64	137.05
Fare	115.00	115.00	124.00	131.00	134.00
Tax	3.04	3.04	3.04	3.05	3.05
Security charge	-	0.59	0.59	0.59	-
Thrift fare, weekdays 2/ ...	103.04	103.63	112.63	119.63	122.04
Fare	100.00	100.00	109.00	116.00	119.00
Tax	3.04	3.04	3.04	3.04	3.04
Security charge	-	0.59	0.59	0.59	-
Aircraft	B-747	B-747	B-747	B-747	B-747
Flight time 3/	5:02	5:02	5:02	4:58	4:58

Continued on next page.

Table 300.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SAN FRANCISCO-HONOLULU FLIGHTS: 1972 TO 1979 -- Con.

[For Pan American World Airways unless otherwise specified]

Subject	Effective date of change in fare				
	June 15, 1977	Nov. 4, 1977	May 1, 1978	Aug. 17, 1978	May 7, 1979 1/
First Class fare 2/	212.08	200.08	206.08	212.08	225.09
Fare	209.00	197.00	203.00	209.00	222.00
Tax	3.08	3.08	3.08	3.08	3.09
Security charge	-	-	-	-	-
Economy fare, weekends 2/ ..	148.06	140.05	144.06	148.06	156.06
Fare	145.00	137.00	141.00	145.00	153.00
Tax	3.06	3.05	3.06	3.06	3.06
Security charge	-	-	-	-	-
Economy fare, weekdays 2/ ..	132.05	125.05	129.05	133.05	141.06
Fare	129.00	122.00	126.00	130.00	138.00
Tax	3.05	3.05	3.05	3.05	3.06
Security charge	-	-	-	-	-
Thrift fare, weekends 2/ ...	140.05	133.05	137.06	141.05	149.06
Fare	137.00	130.00	134.00	138.00	146.00
Tax	3.05	3.05	3.06	3.05	3.06
Security charge	-	-	-	-	-
Thrift fare, weekdays 2/ ...	124.05	118.04	121.04	125.05	134.05
Fare	121.00	115.00	118.00	122.00	131.00
Tax	3.05	3.04	3.04	3.05	3.05
Security charge	-	-	-	-	-
Aircraft	B-747	B-747	B-747	B-747	DC-10
Flight time 3/	4:58	4:58	4:58	5:02	4:55

1/ For Western Airlines.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average scheduled flight time eastbound and westbound, in hours and minutes.

Source: Hawaii State Department of Planning and Economic Development, Chronology of Airline Fares and Flight Times, 1929-1974 (Statistical Report 103, June 18, 1974); Pan American World Airways, printed schedules and records; Western Airlines, printed schedules and records.

Table 301.-- REGULAR ONE-WAY AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND CITIES: JUNE 1979

[Total fares, including taxes, in dollars, by United Airlines. These fares were effective May 28, 1979 through July 31, 1979.]

Class	Los Angeles	Denver	Chicago	New York City
First class	239.07	308.93	383.91	443.68
Coach:				
Weekend	166.04	213.77	265.91	307.20
Weekday	151.04	198.43	250.38	291.57
Economy:				
Weekend	159.04	203.54	255.56	...
Weekday	144.04	188.19	240.03	...

Source: United Airlines, District Sales Office, records.

Table 302.— REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1977 TO 1979

Subject	Effective date of change in fare				
	Oct. 1, 1977	Apr. 8, 1978	Feb. 15, 1979	June 1, 1979	Aug. 1, 1979
HONOLULU-HILO					
Total one-way fare 1/	32.00	34.00	35.00	36.00	39.00
Fare	29.63	31.48	32.41	33.33	36.11
Tax	2.37	2.52	2.59	2.67	2.89
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:40	0:40	0:40	0:40	0:40
HONOLULU-MAUI					
Total one-way fare 1/	25.00	27.00	28.00	29.00	30.00
Fare	23.15	25.00	25.93	26.85	27.78
Tax	1.85	2.00	2.07	2.15	2.22
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:27	0:27	0:27	0:27	0:27
HONOLULU-KAUAI					
Total one-way fare 1/	25.00	27.00	28.00	29.00	30.00
Fare	23.15	25.00	25.93	26.85	27.78
Tax	1.85	2.00	2.07	2.15	2.22
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:26	0:26	0:26	0:26	0:26

1/ Total regular one-way fare, including taxes and other charges, in dollars.
2/ Average scheduled flight time eastbound and westbound, in hours and minutes.
Source: Hawaiian Airlines, printed schedules and records.

Table 303.— STATE COMMERCIAL HARBORS: 1978

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area 1/ (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	64	341
Kawaihae	40	35	1,500	1,450	1,015	30	73
Maui:							
Kahului	35	35	2,400	2,050	2,317	162	280
Molokai:							
Kaunakakai	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main	40	35	3,300	1,520	17,855	2,132	6,554
Kapalama		35	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	69	73
Port Allen	35	35	1,500	1,200	1,324	24	33

1/ Revised from 1978 edition, table 316.

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, data supplied March 30, 1979.

Table 304.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1978

Subject	Number	Subject	Number
Certificates outstanding	13,695	Type of vessel: 1/	
		Cabin motorboat	1,687
Length:		Open motorboat	5,186
Under 16 feet	5,844	Runabout	3,431
16 to less than 26 feet	6,544	Sail/inboard	503
26 to less than 40 feet	1,076	Sail/outboard	681
40 to 65 feet	172	Sail only	1,553
Over 65 feet	8	Motor vessel over 65 feet	7
Dealers or manufacturers	51	Other	596
Hull materials: 1/		Uses:	
Wood	2,978	Pleasure	12,192
Steel	42	Commercial fishing	929
Aluminum	438	Charter fishing	21
Plastic	9,736	Commercial passenger	54
Other	450	Other commercial	37
		Livery	71
Propulsion: 1/		Dealers or manufacturers	51
Inboard	876	Youth group	46
Outboard	7,940	Government	232
Inboard/outboard	1,828	Other	62
Sail/inboard	507		
Sail/outboard	628	Island kept: 1/	
Sail only	1,595	Hawaii	1,713
Other	270	Kauai	1,022
		Lanai	57
Type of storage: 1/		Maui	834
On water	2,686	Molokai	242
On land	10,958	Oahu	9,776

1/ Excludes dealers and manufacturers (51).

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 305.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1970 TO 1978

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1970	June 30	553	Dec. 31	8,042
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 306.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1977 AND 1978

Year ended June 30	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1977	1,589	12,568,896	2,770	2,249,446
1978	1,651	12,676,469	1,981	1,947,893

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, records.

Table 307.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1977

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Pass. and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
All spec. harbors .	12,784	5,271	236	4,394	2,569	314	(NA)	(NA)
Hilo	626	109	18	253	220	26	519	107
Kawaihae	263	12	-	146	102	3	251	12
Kahului	938	166	18	357	348	49	811	127
Kaumalapau	523	-	-	260	263	-	523	-
Kaunakakai	1,156	528	-	378	248	2	(NA)	(NA)
Kalaupapa	8	-	-	5	3	-	8	-
Honolulu	7,080	3,461	93	2,170	1,206	150	6,323	757
Barbers Point	1,249	522	102	556	5	64	1,159	90
Nawiliwili	780	458	5	177	120	20	747	33
Port Allen	161	15	-	92	54	-	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1977, Part 4, pp. 105-106.

Table 308.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1977

Subject and year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 1/ (SHORT TONS)						
1970	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
PASSENGERS 2/						
1970	4,457	-	-	690,906	-	4,228
1971	2,148	-	-	518,603	-	1,683
1972	658	-	-	796,694	-	658
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063

1/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

2/ Total arrivals and departures for transpacific, interisland, and local travel. For details (Honolulu only), see the following table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1977, Part 4, pp. 30-35.

Table 309.-- PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN AND DESTINATION, FOR HONOLULU HARBOR: 1977

Category	Total	Arrivals	Departures
All passengers	303,291	138,522	164,769
To or from other countries ..	12,581	8,955	3,626
To or from other states	10,070	5,118	4,952
To or from U.S. territories .	202	202	-
Interisland	262,708	115,037	147,671
Pearl Harbor tours and other local	17,730	9,210	8,520

Source: U.S. Department of the Army, Lower Mississippi Valley Division, Corps of Engineers, Waterborne Commerce Statistics Center, records.

Table 310.-- OVERSEAS AND INTERISLAND SHIPPING: 1967 TO 1977

[In revenue tons of 2,000 lb.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1967 ...	7,136,017	4,334,536	2,801,481	3,536,997	1,767,764	1,769,233
1968 ...	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
1969 ...	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970 ...	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 ...	12,647,133	9,545,354	3,101,779	4,542,847	2,274,346	2,268,501

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 311.— FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1977

[In short tons]

		Foreign		Interstate 2/
Harbor and commodity 1/	Total	Imports	Exports 3/	Receipts
Hilo	1,013,430	28,257	-	231,254
Sugar	202,542	-	-	-
Kawaihae	318,197	-	57,801	-
Kahului	1,301,095	26,761	-	136,290
Sugar	238,725	-	-	-
Honolulu	6,881,556	1,059,132	88,795	2,646,314
Fresh fruits and tree nuts	377,443	785	491	34,527
Prep. fruit and veg. juice	545,153	5,272	1,429	9,652
Molasses	254,641	-	-	-
Gasoline	436,456	1,064	16,276	221,916
Kerosene	831,393	750,910	6,458	74,025
Residual fuel oil	238,649	-	-	179,673
Fabricated metal products	483,235	13,906	225	36,974
Motor vehicles, parts, equip.	229,873	25,123	165	101,863
Barbers Point	6,630,994	4,795,447	-	572,669
Crude petroleum	2,488,269	2,479,742	-	8,527
Distillate fuel oil	422,311	271,406	-	-
Residual fuel oil	2,660,364	1,254,748	-	563,861
Coke, pet. asphalts, solvents	529,335	529,335	-	-
Nawiliwili	557,798	11,129	-	4,741
Sugar	228,724	-	-	-
Other harbors 4/	532,935	(NA)	(NA)	(NA)

Continued on next page.

Table 311.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1977 -- Con.

[In short tons]

Harbor and commodity 1/	Interstate — con. 2/	Interisland 2/		Internal receipts	Local
	Shipments	Receipts	Shipments		
Hilo	326,761	355,332	71,563	263	-
Sugar	195,185	37	7,320	-	-
Kawaihae	142,277	68,839	49,239	41	-
Kahului	265,219	619,723	253,070	32	-
Sugar	238,332	274	119	-	-
Honolulu	846,886	844,463	1,347,367	471	48,128
Fresh fruits and tree nuts	42,686	295,335	3,619	-	-
Prep. fruit and veg. juice	422,922	97,026	8,852	-	-
Molasses	136,771	98,116	4,805	-	14,949
Gasoline	2,787	48,319	134,995	-	11,099
Kerosene	-	-	-	-	-
Residual fuel oil	536	-	58,440	-	-
Fabricated metal products	6,474	112,894	312,762	-	-
Motor vehicles, parts, equip.	20,595	21,284	60,843	-	-
Barbers Point	1,112,480	21,987	128,411	-	-
Crude petroleum	-	-	-	-	-
Distillate fuel oil	133,364	3,357	14,184	-	-
Residual fuel oil	841,755	-	-	-	-
Coke, pet. asphalts, solvents	-	-	-	-	-
Nawiliwili	245,649	214,805	81,412	62	-
Sugar	228,702	22	-	-	-
Other harbors 4/	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Commodities under 200,000 tons not shown.

2/ Interstate and interisland data are combined (as "coastwise") in the published reports.

3/ The leading export item in 1977 was wood chips, staves, holdings (38,601 tons, all from Kawaihae).

4/ Includes Hana (2 tons), Kaumalapau (264,525 including 215,334 in fresh fruits and tree nuts), Kaunakakai (171,722), Kalaupapa (937), Kailua (5), and Port Allen (95,744).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1977, Part 4, pp. 30-38, and unpublished printouts.

Table 312.-- BOATING ACCIDENTS: 1977 AND 1978

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured nonfatally		
1977	57	1	1	6	63	284.0
1978	74	7	12	5	87	603.2

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,100 farms in Hawaii as of 1978, with a total area of 2,290,000 acres. Both figures have declined during the past decade. The value of crop sales in 1978 was $306 million, or 86 percent higher than the total for 1968. Livestock sales amounted to $73 million, or 91 percent more than the 1968 level. Combined crop and livestock sales ranged from $45 million in Kauai County to $125 million on the Big Island. Net farm income in 1977 was $69.7 million, the lowest annual total since 1971. Major crops in 1978 were sugar ($183 million in sales, up 64 percent over the decade), pineapple ($63 million, or 75 percent over the 1968 total), and flowers and nursery products ($17 million, or 482 percent more than in 1968). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from $18 million in 1968 to $61 million in 1978, or approximately 236 percent. About 600 farms sold $17 million of flowers and nursery products in 1978, chiefly anthuriums, potted foliage, orchids, and ornamentals and trees. Important products of livestock farms as of 1978 included cattle ($24 million in sales), hogs ($8 million), milk ($24 million), and eggs ($13 million). Coffee sales have fluctuated sharply during the past decade, but macadamia nuts and horticultural specialties have increased rapidly. In 1978, Hawaii produced 41 percent of the fresh market vegetables consumed locally, 28 percent of the fresh market fruits, 36 percent of the beef and veal, 24 percent of the chickens, none of the rice, and 90 percent of the eggs.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Some authorities have speculated that the income from such illegal production may exceed that from more traditional forms of diversified agriculture.

Important sources for data on agriculture include the United States Census of Agriculture, most recently conducted at the end of 1974, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and publications of the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1978.

Table 313.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1974

County	Number of farms, by size (in acres)					Farm acreage (thousands)			
	All farms	1 to 9	10 to 49	50 to 259	260 and over	Total acreage	Total cropland	Harvested cropland	Irrigated
State total ..	3,020	1,633	872	317	198	2,119	351.6	151.4	141.7
Hawaii	1,641	801	546	182	112	1,315	143.2	56.5	9.7
Honolulu	697	513	122	36	26	136	51.2	23.9	34.8
Kauai	248	113	81	34	20	270	49.8	24.2	38.3
Maui	434	206	123	65	40	398	107.4	46.9	59.0

County	Average size of farm (acres)	Average age of farm operators (years)	Tenant operators: percent of total	Regular hired workers 1/	Average value of land and buildings		Market value of agricultural products sold		
					Per farm ($1,000)	Per acre (dollars)	Total ($1,000)	Average per farm ($1,000)	Percent of farms over $2,500
State total ..	702	55.4	36.6	11,497	340.6	485	609,788	201.9	69.3
Hawaii	801	55.6	36.4	3,662	330.3	412	214,816	130.9	67.9
Honolulu	195	55.4	41.3	2,507	272.4	1,398	135,134	193.9	76.8
Kauai	1,089	54.9	38.3	1,980	397.4	365	102,298	412.5	66.1
Maui	917	55.2	28.8	3,348	456.3	497	157,539	363.0	64.3

1/ Working 150 days or more on farms with sales of $2,500 and over.

Source: U.S. Bureau of the Census, U.S. Census of Agriculture: 1974, Vol. I, Part 11.

Table 314.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1968 TO 1978

Year and county	Number of farms	Farm acreage 1/ (1,000)	Value of crop and livestock sales 2/ ($1,000)				
			Crops and livestock	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
1968 ...	4,700	2,330	203,051	111,200	35,900	18,066	37,885
1969 ...	4,600	2,310	199,101	104,900	35,500	19,214	39,487
1970 ...	4,500	2,300	213,689	110,600	39,500	21,941	41,648
1971 ...	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1972 ...	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973 ...	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974 ...	4,100	2,300	575,473	442,300	40,300	34,964	57,909
1975 ...	4,100	2,300	377,552	237,000	41,600	40,688	58,264
1976 ...	4,100	2,300	327,830	164,700	53,000	47,815	62,315
1977 ...	4,100	2,300	325,459	144,200	62,500	53,751	65,008
1978 ...	4,100	2,290	378,922	182,700	63,000	60,689	72,533

1/ Includes land not in crop and pasture, such as farm house lots, roads, etc.

2/ Excludes illegal crops, which are thought by some authorities to have sales greater than those of all legal crops. Shipments of *pakalōlō* (marijuana) from Hawaii County alone have been estimated at 250,000 pounds annually, with annual sales from these shipments running between $250 million and $750 million; see *Honolulu Advertiser*, August 15, 1978, p. A-4.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 315.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1968 TO 1978

Geographic area and year	Number of farms	Farm acreage 1/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and livestock	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
State total:							
1968	4,700	2,330	203,051	111,200	35,900	18,066	37,885
1977	4,100	2,300	325,459	144,200	62,500	53,751	65,008
1978	4,100	2,290	378,922	182,700	63,000	60,689	72,533
Hawaii Co.:							
1968	2,600	1,365	61,397	41,100	-	9,864	10,433
1977	2,450	1,340	98,879	51,900	-	28,874	18,105
1978	2,400	1,337	125,423	68,600	-	34,091	22,732
Maui Co.:							
1968	710	530	56,514	26,000	23,000	2,746	4,768
1977	500	526	83,984	37,100	30,700	9,076	7,108
1978	500	524	90,191	43,600	28,300	10,368	7,923
Oahu:							
1968	950	152	56,672	20,300	11,600	4,357	20,415
1977	850	152	105,236	23,000	31,800	12,882	37,554
1978	850	149	117,972	30,900	34,700	13,256	39,116
Kauai Co.:							
1968	440	283	28,468	23,800	1,300	1,099	2,269
1977	300	282	37,360	32,200	-	2,919	2,241
1978	350	280	45,336	39,600	-	2,974	2,762

1/ Includes land not in crop and pasture such as farm house lots, roads, wood lots, etc.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 316.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1968 TO 1978

Subject	1968	1977	1978
Acreage in crop (1,000 acres):			
Sugarcane	242.5	220.7	220.7
Pineapples (land used for pineapple)	63.4	45.0	44.0
Vegetables and melons (harvested acreage)	3.2	3.8	4.0
Fruits, excluding pineapples	3.5	5.1	5.2
Coffee	4.4	2.4	2.3
Macadamia nuts	8.5	9.9	10.2
Miscellaneous crops	2.0	6.2	7.0
Number of crop farms:			
Sugar	768	520	480
Pineapples	63	16	16
Vegetables and melons	562	504	542
Fruits (excluding pineapples)	507	673	641
Coffee	800	780	750
Macadamia nuts	257	456	464
Taro	141	129	132
Flowers and nursery products	510	550	600
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	11,280	8,994	9,263
Pineapples, fresh equivalent (1,000 tons)	921	690	675
Vegetables and melons (1,000 lb.)	51,050	68,340	71,990
Fruits, excluding pineapples (1,000 lb.)	36,883	76,830	78,220
Coffee, parchment (1,000 lb.)	5,700	2,270	1,780
Macadamia nuts, in shell (1,000 lb.)	10,444	19,680	22,000
Taro (1,000 lb.)	9,140	7,870	7,680
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	111,200	144,200	182,700
Pineapples (fresh equivalent)	35,900	62,500	63,000
Vegetables and melons	6,546	15,036	16,463
Fruits (excluding pineapples)	3,245	9,365	10,321
Coffee (parchment)	1,471	3,133	2,072
Macadamia nuts (in shell)	2,381	8,030	10,714
Taro	676	999	1,029
Field crops (not estimated separately)	606	3,055	2,512
Flowers and nursery products	3,000	14,003	17,458
Forest products	141	130	120

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 317.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1978

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	92.6	48.0	34.0	46.1
Pineapples (land used for pineapple)	-	32.0	12.0	-
Vegetables and melons (harvested acreage)	1.2	1.3	1.4	0.1
Fruits, excluding pineapples	3.4	0.6	0.7	0.5
Coffee	2.3	-	-	-
Macadamia nuts	10.1	(D)	(D)	(D)
Miscellaneous crops	2.7	2.8	1.0	0.5
Number of crop farms:				
Sugar	469	3	3	5
Pineapples	-	14	2	-
Vegetables and melons	187	72	232	51
Fruits (excluding pineapples)	393	33	152	63
Coffee	750	-	-	-
Macadamia nuts	459	1	1	3
Taro	47	31	2	52
Flowers and nursery products	300	95	180	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,936	1,985	1,427	1,915
Pineapples, fresh equivalent (1,000 tons)	-	488	187	-
Vegetables and melons (1,000 lb.)	27,270	26,360	16,020	2,330
Fruits, excluding pineapples (1,000 lb.)	49,700	14,940	7,450	6,140
Coffee, parchment (1,000 lb.)	1,780	-	-	-
Macadamia nuts, in shell (1,000 lb.)	21,930	(D)	(D)	(D)
Taro (1,000 lb.)	1,550	1,210		4,920
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	68,600	43,600	30,900	39,600
Pineapples (fresh equivalent)		28,300	34,700	-
Vegetables and melons	5,614	4,888	5,302	659
Fruits (exluding pineapples)	6,496	1,564	1,389	872
Coffee (parchment)	2,072	-	-	-
Macadamia nuts (in shell)	10,680	(D)	(D)	(D)
Taro	264	150		615
Field crops (not estimated separately)	238	1,291	473	510
Flowers and nursery products	8,627	2,467	6,085	279
Forest products	100	8	7	5

D Withheld to avoid disclosure of individual operations.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1978.

Table 318.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1978

Crop 1/	Acreage harvested	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables:					
Snapbeans	200	6.5	1,300	57.5	748
Chinese cabbage	270	25.1	6,770	12.1	819
Head cabbage ..	460	30.0	13,800	10.5	1,449
Cucumbers	260	16.5	4,300	24.0	1,032
Eggplant	65	26.8	1,740	34.3	597
Ginger root ...	55	24.4	1,340	61.1	819
Lettuce (head, semi-head) ..	590	17.5	10,300	20.9	2,153
Dry onions	75	20.0	1,500	36.3	544
Green onions ..	100	9.8	980	70.5	691
Tomatoes	250	28.0	7,000	28.6	2,002
Fruits:					
Bananas	560	8.6	4,800	18.5	888
Papayas	2,190	29.2	64,000	13.0	8,304
Macadamia nuts ..	9,200	2.4	22,000	48.7	10,714
Coffee (1978-1979)	1,900	0.9	1,780	116.0	2,072
Taro	450	...	7,680	13.4	1,029

1/ Data shown for crops with sales in excess of $500,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1978.

Table 319.-- NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1968 TO 1978

Subject	1968	1977	1978
Number of livestock farms, Dec. 31:			
Cattle 1/	1,300	900	800
Hogs	710	640	650
Milk	150	80	70
Eggs	350	70	60
Broilers	34	10	10
Honey	29	23	28
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.)	33,621	32,325	33,544
Pork (dressed weight; 1,000 lb.)	8,594	8,750	9,851
Milk (million lb.)	131.6	147.5	147.3
Eggs (million)	203	218	218
Broilers and chickens (1,000 lb. 2/)	5,363	6,158	6,786
Honey (1,000 lb.)	354	679	814
Value of livestock sales ($1,000):			
Cattle 3/	12,860	18,837	24,370
Hogs 3/	3,873	7,105	7,947
Milk	12,489	23,158	23,715
Eggs	6,631	12,408	12,699
Broilers and chickens	1,934	3,125	3,335
Other	98	375	467

1/ Includes beef, dairy, and dairy replacement farms.

2/ Ready-to-cook weight.

3/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 320.-- NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1978

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock farms, Dec. 31:				
Cattle 1/	355	205	85	155
Hogs	85	110	355	100
Milk	24	17	24	5
Eggs	23	5	26	5
Broilers	(D)	(D)	(D)	(D)
Honey	3	5	8	12
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.)	21,979	6,657	1,738	3,170
Pork (dressed weight; 1,000 lb.)	1,190	1,879	6,290	492
Milk (million lb.)	(D)	(D)	119.6	(D)
Eggs (million)	13.2	(D)	186.8	(D)
Broilers and chickens (1,000 lb. 2/)	(D)	(D)	6,450	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 3/	16,004	5,050	1,064	2,252
Hogs 3/	968	1,628	4,865	486
Milk	(D)	(D)	19,340	(D)
Eggs	858	(D)	10,663	(D)
Broilers and chickens	(D)	(D)	3,148	(D)
Other	340	67	36	24

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Ready-to-cook weight.

3/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1978.

Table 321.-- FLOWERS AND NURSERY PRODUCTS, 1976 TO 1978, AND BY ISLAND, 1978

Island and year	Number of farms	Area						Wholesale value ($1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)		
State total:								
1976	500	1,128	830	9,755	172	713		11,828
1977	550	1,210	948	11,185	197	734		14,003
1978	600	1,203	1,421	13,874	140	712		17,458
Islands, 1978:								
Hawaii	300	713	700	10,750	125	325		8,627
Kauai	25	19	16	84	2	15		279
Maui	95	185	130	390	3	170		2,467
Oahu	180	286	575	2,650	10	202		6,085

Source: Hawaii Agricultural Reporting Service, "Flowers and Nursery Products Industry Blooms in 1978," Hawaii Flowers & Nursery Products Annual Summary, April 24, 1979.

Table 322.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1978

Kind of flower	Number of farms	Number of flowers sold		Wholesale value ($1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	187	1,000 dozens	1,925	5,017
Birds of paradise	21	1,000 dozens	29	44
Carnations	10	1,000 dozens	42	80
Chrysanthemums, pompon	14	1,000 bunches	279	204
Chrysanthemums, other	4	1,000 dozens	8	39
Gingers	24	...	(NA)	75
Proteas, sunburst cordifolium	11	1,000 stems	461	165
Proteas, other	9	1,000 stems	59	56
Roses	4	1,000 dozens	466	738
Others	36	...	(NA)	254
Cut orchids:				
Cattleyas	21	1,000 flowers	54	28
Cymbidiums	16	1,000 flowers	746	273
Dendrobiums, sprays	24	1,000 dozens	31	136
Others	22	...	(NA)	99
Lei flowers:				
Carnations	21	Million flowers	38.8	1,043
Vanda Miss Joaquim	26	Million flowers	43.2	555
Plumerias	15	Million flowers	36.6	442
Tuberoses	3	Million flowers	19.5	338
Pikake	6	1,000 strands	65	92
Cut foliage:				
Ti leaves	31	Million leaves	15.0	247
Other greens	27	...	(NA)	140
Potted plants:				
Chrysanthemums	9	1,000 pots	176	435
Orchids	62	1,000 pots	259	908
Potted foliage	71	...	(NA)	3,441
Other potted plants	49	...	(NA)	576
Ornamentals and trees	63	...	(NA)	811
Other nursery products	58	...	(NA)	1,222

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Flowers and Nursery Products Industry Blooms in 1978," Hawaii Flowers & Nursery Products Annual Summary, April 24, 1979.

Table 323.-- MARKET SUPPLY OF SPECIFIED FOODS: 1968 TO 1978

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipments	Hawaii		
Fresh market fruits:					
1968	46,862	25,348	21,514	61.8	45.9
1977	70,439	49,783	20,656	72.7	29.3
1978	74,960	53,805	21,155	76.1	28.2
Fresh market melons:					
1968	8,434	6,599	1,835	11.1	21.8
1977	10,871	8,786	2,085	11.2	19.2
1978	12,376	10,506	1,870	12.6	15.1
Fresh market vegetables:					
1968	106,670	61,402	45,268	140.6	42.4
1977	152,532	88,132	64,400	157.4	42.2
1978	165,449	97,119	68,330	168.0	41.3
Beef and veal: 3/					
1968	66,295	32,674	33,621	87.4	50.7
1977	93,142	60,817	32,325	96.1	34.7
1978	91,931	58,387	33,544	93.4	36.5
Pork: 3/					
1968	25,398	16,804	8,594	33.5	33.8
1977	31,971	23,221	8,750	33.0	27.4
1978	32,427	22,576	9,851	32.9	30.4
Chickens: 4/					
1968	19,202	13,839	5,363	25.3	27.9
1977	28,021	21,863	6,158	28.9	22.0
1978	28,483	21,697	6,786	28.9	23.8
Eggs, shell:					
1968	17,546	646	16,900	23.1	96.3
1977	19,706	1,506	18,200	20.3	92.4
1978	20,114	1,914	18,200	20.4	90.5

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.
2/ Eggs in dozens; other foods in pounds. Based on de facto population.
3/ Carcass weight equivalent.
4/ Ready-to-cook weight.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 324.-- GROSS AND NET INCOME FROM FARMING AND FARM PRODUCTION EXPENSE: 1975 TO 1977

[In millions of dollars]

Subject	1975	1976	1977
Gross farm income, total	410.8	355.7	379.0
Cash receipts from farm marketings	377.7	328.3	324.7
Government payments 1/	8.6	0.4	24.7
Non-money income	11.5	12.8	13.3
Other farm income	12.9	14.2	16.3
Farm production expenses, total	268.4	284.0	308.1
Current farm operating expenses	230.8	248.6	270.6
Hired labor	110.7	120.4	140.1
Other current expenses 2/	120.1	128.2	130.5
Other expenses 3/	37.6	35.4	37.5
Net change in farm inventories	0.3	-1.1	-1.2
Net income after inventory adjustment	142.8	70.6	69.7

1/ Excludes amounts paid but allocated to the raw sugar processing and refining segment of the sugar industry ($24.0 million in 1977).

2/ Feed, livestock, seed, fertilizer and lime, repairs and operation of capital items, and miscellaneous current operating expenses.

3/ Depreciation and other consumption of farm labor, taxes on farm property, interest on farm mortgage debt, and net rent to nonoperator landlords.

Source: U.S. Department of Agriculture estimates cited in the Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1978, p. 12.

Table 325.-- LAND USE PRODUCTIVITY RATINGS FOR MAJOR ISLANDS: 1968

[In acres]

Island	Agricultural productivity rating						
	Total	A (very good)	B (good)	C (moderate)	D (poor)	E (very poor)	Not rated for productivity 1/
Six islands	4,050,176	68,037	128,833	312,558	783,817	2,668,515	88,416
Kauai	354,112	10,038	30,276	28,458	30,525	249,276	5,539
Oahu	388,928	24,584	32,286	21,986	19,728	228,218	62,126
Molokai	167,104	702	-	4,519	40,405	120,309	1,169
Lanai	89,280	-	-	4,849	20,219	63,777	435
Maui	466,432	32,713	20,067	38,467	99,806	268,726	6,653
Hawaii	2,584,320	-	46,204	214,279	573,134	1,738,209	12,494

1/ Quarry, water, or urban.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial forest in the State, most of it on the Big Island. More than 49,000 acres had been planted in eucalyptus and other species of trees by mid-1978. Forest products harvested in 1977 had a value of $3.5 million. More than 400 forest and brushland fires burned 17,000 acres in 1978. According to a 1974 compilation, the tallest tree in the State is a 203-foot eucalyptus saligna.

The commercial fish catch in fiscal 1978 was 13.7 million pounds and had a value of $11.2 million. Aku (Skipjack) accounted for 35 percent of the total value. Other important species are ahi, akule, opelu, and opakapaka. Commercial fishermen numbered 2,574; they operated 1,437 fishing vessels, serving 44 fishery wholesaling and processing establishments.

The value of mineral production reached $44 million in 1977, most of it in cement and stone. The all-time high was $49.7 million, recorded in 1975.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and Hawaii State Department of Land and Natural Resources, Fish and Game Division and Forestry Division. Historical Statistics of Hawaii, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the Statistical Abstract of the United States: 1978, Sections 25, 26 and 27.

Table 326.-- FOREST ACREAGE AND FIRES, BY ISLANDS: 1970-1978

Island	Forest and water reserve, 1978 1/ (acres)	Forest land, 1970 (acres)		Planted forest 1978 2/ (acres)		Forest and brushland fires, 1978 3/	
		Total 4/	Commercial 5/	Latest year	Cumulative	Number	Acres burned
State total	1,186,462	1,986,400	947,800	19	49,328	401	17,308
Hawaii	697,361	1,152,500	569,400	-	22,793	208	15,779
Maui	155,247	239,800	67,500	2	10,677	51	903
Kahoolawe	-	15,800	-	-	-		
Lanai	6,150	43,900	4,500	-	512		
Molokai	46,445	78,100	34,000	5	2,854		
Oahu	119,319	205,300	126,500	12	7,224	75	574
Kauai	161,970	219,900	145,900	-	5,268	67	52
Niihau	-	31,100	-	-	-		
Northwestern Hawaiian Isl.	-	-	-	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.
2/ Annual and cumulative totals to June 30.
3/ Calendar year.
4/ Includes commercial, unproductive, and productive-reserved acreage.
5/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

Source: Hawaii State Department of Land and Natural Resources, Forestry Division, records.

Table 327.-- FOREST PRODUCTS HARVESTED: 1977

Forest product	Output		Unit price (dollars)	Total value (dollars)
	Unit	Amount		
All products	...	...	...	3,465,233
Logs for lumber	MBF 1/	2,750	209	574,833
Logs for craftwood	Cords 2/	299	224	51,330
Logs for fiber	BDT 3/	55,502	41	2,310,500
Tree fern	Cubic feet	95,000	1.42	135,000
Fuelwood from trees	Cords 2/	4,191	47	194,563
Fuelwood for charcoal	Cords 2/	800	34	26,820
Fuel from mill residue ...	Tons	5,000	10.50	52,500
Round posts	Posts	32,700	3.14	102,604
Split posts	Posts	3,525	2.93	10,321
Driftwood	Cords 2/	2	300	600
Pallets	Number	20	20	400
Bamboo	Lineal feet	18,844	0.04	742
Kukui nuts	Tons	13.86	362	5,020

1/ Thousand board feet.

2/ One cord equals 128 cubic feet.

3/ Bone dry ton, equal to 2,000 lbs. of wood at 0% moisture content.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry, Hawaiian Forest Products 1977, table II.

Table 328.-- FISHERY OPERATING UNITS AND LANDINGS: 1970 TO 1976

Year	Fishermen 1/	Vessels and boats 2/		Fishery establishments 3/	Landings 4/	
		Motor vessels	Boats		Quantity (1,000 lb.)	Value ($1,000)
1970	1,436	80	686	37	11,051	3,900
1971	1,533	89	812	44	16,873	5,238
1972	1,732	101	839	40	14,443	5,743
1973	2,091	104	1,097	41	14,035	6,115
1974 5/ ..	1,992	97	1,066	42	10,990	6,028
1975	2,197	109	1,278	42	9,209	6,313
1976	2,367	101	1,336	44	14,761	8,879

1/ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources, Fish and Game Division. Data refer to June 30 of the following year.

2/ A vessel is defined as a craft with a capacity of 5 net tons or more; a boat, as a craft with a capacity of less than 5 net tons. Data on vessels and boats refer to June 30 of the following year.

3/ Fishery wholesaling and processing establishments, as of June 30 of the year indicated.

4/ Data may differ from corresponding totals reported by the State Fish and Game Division, which unlike the NMFS series shown here, include unsold fish.

5/ Methods of collecting data on operating units were changed in 1974.

Source: U.S. Department of Commerce, National Marine Fisheries Service, Fishery Statistics of the United States (annual, 1970-1975), and records.

Table 329.— COMMERCIAL FISHING: 1968 TO 1978

[Years ended June 30]

Year	Fishermen licensed during year	Commercial fish landings				
		Pounds	Value (dollars)	Value per pound (dollars)	Per fisherman	
					Pounds	Value (dollars)
1968	760	12,829,326	3,253,622	0.254	16,881	4,281
1969	1,028	11,096,116	3,378,553	0.304	10,794	3,287
1970	1,264	9,786,726	3,584,936	0.366	7,743	2,836
1971	1,373	15,176,525	4,633,877	0.305	11,054	3,375
1972	1,544	15,577,302	5,536,385	0.355	10,089	3,586
1973	1,677	14,029,491	5,676,780	0.405	8,366	3,385
1974	2,085	13,997,435	6,234,933	0.445	6,713	2,990
1975	1,991	10,801,380	6,242,572	0.578	5,425	3,135
1976	2,283	11,891,275	7,503,964	0.631	5,209	3,287
1977	2,367	15,298,457	9,433,770	0.617	6,463	3,986
1978	2,574	13,681,344	11,169,917	0.816	5,315	4,340

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, Commercial Fish Landings for Fiscal Year (annual), and records.

Table 330.-- COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND: JULY 1, 1977 TO JUNE 30, 1978

Island and species	Pounds caught	Value (dollars)
Total landings	13,681,344	11,169,917
ISLAND		
Hawaii	2,734,892	2,526,381
Maui	902,108	511,817
Lanai	27,137	14,912
Molokai	29,933	23,923
Oahu	9,518,598	7,750,529
Kauai	468,676	342,355
SPECIES 1/		
Sea catch, total 2/	13,658,827	11,140,212
Aku	7,298,669	3,952,550
Ahi (Yellowfin)	2,288,483	2,316,769
Ahi (Bigeye)	578,931	1,264,347
Pacific Blue Marlin	469,386	152,471
Akule	456,584	376,890
Opelu	361,348	328,019
Ono	227,486	221,815
Opakapaka	193,086	310,725
Striped Marlin	139,443	150,345
Mahimahi	128,825	213,492
Ahipalaha (Albacore)	117,471	108,967
Kawakawa	106,367	38,659
Uku	99,655	137,283
Ulaula Koae (Onaga)	66,505	166,456
Ula (Lobster)	60,956	176,500
Pond catch, total	22,517	29,705

1/ Shown separately for all species over 100,000 pounds or $100,000.

2/ Includes species not shown separately.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, Commercial Fish Landings for Fiscal Year -- July, 1977 through June, 1978 (November 20, 1978).

Table 331.— MINERAL OPERATIONS: 1972

[Excluding operations in manufactures]

Subject	Number
Establishments	15
With 20 or more employees	5
All empoyees (1,000)	0.3
Payroll (millions of dollars)	2.4
Production, development, and exploration workers (1,000)	0.2
Man-hours (million)	0.4
Wages (millions of dollars)	1.8
Value added in mining (millions of dollars)	9.0
Cost of supplies, etc. (millions of dollars)	4.1
Value of shipments and receipts (millions of dollars)	11.0
Capital expenditures (millions of dollars)	2.0

Source: U.S. Bureau of the Census, U.S. Census of Mineral Industries, 1972, MIC72(2)-9, table 1.

Table 332.-- MINERAL PRODUCTION: 1960 TO 1978

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals 1/
1960	21	3,535	9,254	571	6,443	2,240
1961	202	4,429	14,588	5,574	7,656	1,358
1962	212	4,071	14,844	6,055	6,883	1,906
1963	279	3,844	15,307	7,125	6,480	1,702
1964	323	5,282	19,605	8,877	8,765	1,963
1965	294	5,172	20,835	8,297	9,353	3,185
1966	329	5,079	21,253	9,046	9,482	2,725
1967	262	4,100	16,936	7,360	7,207	2,369
1968	346	5,211	23,225	9,254	11,273	2,698
1969	390	6,534	29,539	10,544	16,059	2,936
1970	406	6,331	28,965	10,334	15,538	3,093
1971	386	6,056	28,107	10,627	14,357	3,123
1972	415	5,005	28,074	11,116	13,494	3,464
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978 2/ ...	458	5,851	50,924	26,518	20,504	3,902

1/ Chiefly sand and gravel; pumice, pumicite, and volcanic cinder; and lime.

2/ Preliminary.

Source: U. S. Bureau of Mines, Minerals Yearbook (annual), "The Mineral Industry in Hawaii," Mineral Industry Surveys (annual preliminary and advance summary reports), and Minerals in the Economy of Hawaii (annual, 1978 and 1979).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing, sales, and residential financing.

There were 25,807 building permits issued in 1978, with an estimated value of $757 million. The total included $438 million for private residential construction and $233 million for private nonresidential structures. The value of government construction contracts awarded was $290 million. Construction put in place, as indicated by the contracting tax base, totaled $452 million in 1968 and $1.06 billion in 1978. The value of land transfers in fiscal 1978 was $1.3 billion. Mortgage loans outstanding at the end of 1977 amounted to $4.5 billion. The March 1979 construction cost index for Honolulu (1967=100) was 262.1 for single-family residences and 260.3 for high-rise buildings.

The number of housing units in the State increased from 210,000 in 1969 to 287,000 in 1979. Owner occupied units numbered 84,000 in 1969 and 133,000 in 1979; the latter total included 96,000 on land owned in fee simple and 37,000 on leased land. Condominium units, first authorized in 1961, exceeded 63,000 at the end of 1978. Military and public housing accounted for 26,000 units as of 1979. Housing was in short supply throughout most of the past decade: on Oahu, the 1978 vacancy rate was only 1.5 percent. The average selling price of single family homes on Oahu during the year ended February 28, 1979, based on Multiple Listing Service data, was $114,000. The median gross monthly rent for Oahu rose from $140 in 1970 to $234 in 1976, and the median value of owner occupied units in the latter year was well above $75,000.

The principal sources for these data are the 1970 U.S. Census of Housing, the 1975 OEO Census Update Survey, the 1976 Honolulu Housing Survey, postal vacancy surveys issued by the Federal Home Loan Bank, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Land and Natural Resources, Department of Planning and Economic Development, Department of Regulatory Agencies, and Department of Taxation, Honolulu Department of Housing and Community Development, and the County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Honolulu Department of Housing and Community Development (chiefly its Housing and Community Development Research, now issued annually), the Bank of Hawaii (particularly Construction in Hawaii, also annual), and the First Hawaiian Bank (in its monthly Economic Indicators). Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1978.

Table 333.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTY: 1968 TO 1978

Year	Number of building permits issued					Estimated value of building permits ($1,000)				
	State total	Honolulu	Hawaii	Kauai	Maui	State total	Honolulu	Hawaii	Kauai	Maui
1968	21,262	16,997	2,126	389	1,750	405,618	345,600	22,535	14,627	22,856
1969	20,944	15,426	3,050	460	2,008	524,667	412,594	60,757	18,013	33,303
1970	23,162	16,792	3,402	514	2,454	506,649	386,687	61,362	15,777	42,823
1971	24,562	17,239	3,876	556	2,891	416,695	298,630	61,237	15,768	41,060
1972	25,342	17,706	3,982	862	2,792	508,261	364,835	69,016	25,741	48,669
1973	30,581	22,767	4,260	1,132	2,422	649,121	480,639	56,376	31,578	80,528
1974	26,027	19,169	3,635	1,066	2,157	831,897	594,896	85,350	36,745	114,906
1975	23,287	16,514	3,506	1,255	2,012	744,494	495,871	69,691	53,099	125,833
1976	23,453	15,937	3,535	1,195	2,786	581,226	411,497	58,137	29,921	81,671
1977	23,406	15,793	3,536	1,173	2,904	534,278	356,591	62,088	32,060	83,539
1978	25,807	17,758	3,938	1,470	2,641	756,757	421,692	81,965	59,858	193,242

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai and Maui County departments of public works, records.

Table 334.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1970 TO 1978

[In thousands of dollars. Limited to private construction, including additions, alteration, and repairs.]

Category and year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1970	224,147	173,815	23,226	8,690	18,417
1971	254,145	181,246	36,926	10,017	25,957
1972	323,756	228,104	42,657	19,808	33,188
1973	460,490	347,767	39,045	21,828	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,673	29,243	13,346	37,086
1977	311,333	192,334	39,504	21,197	58,298
1978	437,601	223,539	60,963	49,005	104,094
NONRESIDENTIAL					
1970	188,154	142,995	25,337	4,855	14,966
1971	113,709	86,047	19,236	3,126	5,299
1972	131,274	98,840	16,614	3,256	12,564
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469
1978	233,006	147,059	13,408	7,711	64,829

Source: First Hawaiian Bank, as revised from local construction reports submitted to F. W. Dodge Division, McGraw-Hill Information Systems Company.

Table 335.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AGENCY AND LOCATION: 1961 TO 1978

[In thousands of dollars.]

Calendar year 1/	Total	By awarding agency				By location of construction			
		Federal agencies	State agencies	City and County of Honolulu	Other counties	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1961	68,635	13,872	29,010	23,707	2,047	54,443	7,271	3,749	3,172
1962	69,357	17,563	23,039	25,321	3,434	56,920	4,622	2,493	5,323
1963	81,136	16,533	38,717	19,785	6,101	64,856	9,012	824	6,445
1964	87,003	44,309	20,725	21,757	212	73,417	5,039	4,953	3,594
1965	139,753	64,963	46,052	28,635	102	126,970	2,118	7,026	3,639
1966	76,788	24,175	28,748	19,539	4,326	61,308	5,066	6,658	3,758
1967	137,567	34,581	63,889	35,777	3,320	114,903	13,502	3,085	6,077
1968	141,910	38,285	64,297	37,010	2,318	120,075	12,083	6,126	3,627
1969	256,288	59,125	165,801	24,818	6,544	207,413	36,078	6,852	5,944
1970	176,237	34,508	107,808	30,507	3,414	143,828	17,084	3,595	11,730
1971	175,348	54,479	99,500	17,886	3,483	149,369	14,622	4,845	6,512
1972	214,612	71,254	117,395	17,101	8,862	179,159	19,684	7,927	7,842
1973	261,723	118,052	97,783	36,294	9,594	228,427	19,616	7,709	5,971
1974	299,361	102,193	148,731	25,002	23,435	243,465	34,842	15,095	5,959
1975	450,250	94,546	227,781	102,007	25,916	354,020	41,576	31,580	23,075
1976	382,333	135,817	146,819	58,680	41,017	294,072	38,656	14,310	35,296
1977	286,452	85,415	135,360	43,772	21,905	221,126	26,884	11,579	26,863
1978	290,004	94,648	155,463	24,999	14,894	224,074	23,384	10,140	32,405

1/ By date of publication.

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1, as updated.

Table 336.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1977 AND 1978

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1977	4,790	2,210	2,580	1,070	429	1,081
1978	5,006	2,075	2,931	1,382	555	994
New duplex units:						
1977	100	84	16	4	2	10
1978	278	260	18	-	12	6
New apartments:						
1977	3,129	2,389	740	129	83	528
1978	4,327	2,111	2,216	282	610	1,324
Units demolished:						
1977	906	696	210	96	15	99
1978	696	558	138	81	5	52

Source: Compiled by the Hawaii State Department of Planning and Economic Development from County building departments.

Table 337.-- CONDOMINIUM PROJECTS REGISTERED WITH THE HAWAII STATE REAL ESTATE COMMISSION: 1976 TO 1978

Year	Projects	Housing units
1976	63	4,167
1977	71	5,017
1978 1/	108	8,846

1/ Includes 15 projects with 95 nonresidential units.

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, Real Estate Commission, records.

Table 338.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1970 TO 1979

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1970	4,908	6	939	874	3,089	15,320
1971	4,318	-	1,062	382	2,874	19,638
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977 1/ ..	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979 2/ ..	6,816	97	1,156	1,447	4,116	69,991

1/ Revised.

2/ Preliminary.

Source: Bank of Hawaii, Department of Business Research, State of Hawaii Condominium Inventory 1962-1978 (June 1979).

Table 339.-- CHARACTERISTICS OF CONDOMINIUM UNITS, BY COUNTIES: DECEMBER 31, 1978

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total inventory	63,175	49,888	2,741	1,594	8,952
Type of structure:					
Single-family and duplex ...	724	598	-	71	55
Townhouse	10,796	8,302	695	433	1,366
Lowrise	12,464	5,488	1,635	1,054	4,287
Highrise	39,191	35,500	411	36	3,244
Original status:					
New	58,269	45,462	2,586	1,486	8,735
Converted	4,906	4,426	155	108	217
Land ownership:					
Fee simple	20,449	14,505	1,090	802	4,052
Leasehold	42,726	35,383	1,651	792	4,900
Occupancy:					
Resident use	53,683	46,496	1,967	687	4,533
Transient use	9,492	3,392	774	907	4,419

Source: Bank of Hawaii, Department of Business Research, State of Hawaii Condominium Inventory 1962-1978 (June 1979).

Table 340.-- HONOLULU CONSTRUCTION COST INDEXES: 1965 TO 1979

[1967 = 100]

Year 1/	Single-family residence			High-rise building		
	All components	Materials prices	Labor 2/	All components	Materials prices	Labor 2/
1965	90.4	92.5	87.8	90.8	95.1	87.2
1966	95.6	97.0	94.0	95.8	98.6	93.2
1967	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.7	106.6	106.8	105.2	102.3	107.6
1969	115.2	115.3	115.2	110.8	104.7	116.1
1970	118.0	112.9	124.5	117.9	109.3	125.2
1971	125.7	116.5	137.4	125.1	110.8	137.7
1972	135.2	123.1	150.6	133.6	114.6	150.0
1973	154.7	150.0	160.9	144.9	129.7	160.6
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.3	215.9	199.1	178.5	216.9
1977	221.2	197.7	251.2	221.9	188.1	251.2
1978	243.7	218.7	275.1	241.6	204.7	273.5
1979: March .	262.1	240.3	289.7	260.3	229.1	287.4

1/ Annual average unless otherwise specified.
2/ Wages and benefits.
Source: First Hawaiian Bank, records.

Table 341.-- CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972

Industry	Number of establishments	All employees (average)	Total receipts ($1,000)
Total	2,318	25,012	1,109,328
Construction industries	2,183	24,460	1,046,508
General building contractors and operative builders	703	9,900	563,928
Heavy construction general contractors	92	3,147	124,794
Special trade contractors	1,387	11,413	357,785
Subdividers and developers	135	552	62,819

Source: U.S. Bureau of the Census, Census of Construction Industries, 1972, Pacific States, CC72-A-9 (1975), p. 51-3.

Table 342.-- GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1968 TO 1978

[In thousands of dollars]

Year reported 1/	Contracting	Rentals		
		Total	Hotel rentals 2/	All other rentals 3/
1968	451,697	417,247	...	...
1969	624,957	490,856	...	...
1970	782,972	531,668	176,923	354,745
1971	692,938	573,606	198,539	375,067
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928
1974	1,027,195	893,347	319,109	574,237
1975	1,161,913	1,019,792	365,919	653,873
1976	1,012,952	1,161,955	433,300	728,655
1977 4/ ...	983,618	1,274,918	482,990	791,929
1978 4/ ...	1,060,898	1,392,947	535,874	857,073

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Not reported separately prior to January 1970.

3/ Includes residential office, automobile, and equipment rentals, and land leases.

4/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 343.-- TENURE AND CONTROL OF HOUSING: 1969 TO 1979

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
1969	209,598	65,164	18,585	105,337	14,236	6,276
1970	216,774	68,422	20,802	106,821	14,439	6,290
1971	223,618	72,086	21,732	108,400	15,089	6,311
1972	231,608	75,939	24,565	109,949	14,959	6,196
1973	239,444	78,878	26,776	112,636	15,071	6,083
1974	249,646	82,494	30,333	114,186	16,373	6,260
1975	260,740	85,264	30,543	121,896	16,386	6,651
1976	268,387	88,284	33,730	122,626	17,225	6,522
1977	275,127	89,980	34,549	126,361	17,493	6,744
1978 5/ ..	281,241	92,989	35,869	127,456	18,653	6,274
1979	286,854	96,273	36,540	127,638	19,022	7,381

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1979 refer to January 1; data for 1969-1976, to July 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

5/ Revised.

Source: Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 33 (July 1973) and No. 34 (July 1974); Honolulu Department of Housing and Community Development, Housing and Community Development Research, Nos. 35-39 (July 1975-July 1979).

Table 344.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1979

County	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
State total	286,854	96,273	36,540	127,638	19,022	7,381
City & Co. of Honolulu	223,447	66,136	34,852	97,762	18,875	5,822
County of Hawaii	27,038	14,390	969	10,758	57	864
County of Kauai	11,793	5,326	129	6,015	65	258
County of Maui	24,576	10,421	590	13,103	25	437

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 39, July 1979.

Table 345.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970

Subject	Total	
	1976	1970
Population in housing units	662,000	593,100
All housing units	219,600	174,200
Vacant--seasonal and migratory	300	100
Tenure, race, and vacancy status		
All year-round housing units	219,300	174,100
Occupied	200,400	164,800
Owner occupied	96,100	74,200
Percent of all occupied	47.9	45.0
Renter occupied	104,300	90,600
Vacant year-round	18,900	9,300
For sale only	5,100	1,100
Homeowner vacancy rate	5.0	1.5
Cooperative or condominium	4,500	(NA)
For rent	6,600	4,500
Rental vacancy rate	6.0	4.7
Rented or sold, not occupied	2,000	1,100
Held for occasional use	2,000	1,600
Other vacant	3,200	1,000
Units in structure		
All year-round housing units	219,300	174,100
1, detached	115,200	98,800
1, attached	12,000	3,600
2 to 4	21,000	20,700
5 or more	71,200	51,000
Mobile home or trailer	-	100
Owner occupied	96,100	74,200
1, detached	78,500	65,600
1, attached	2,800	300
2 to 4	2,300	2,800
5 or more	12,500	5,400
Mobile home or trailer	-	-
Renter occupied	104,300	90,600
1, detached	33,200	29,400
1, attached	8,100	3,300
2 to 4	17,500	17,100
5 to 9	12,400	13,000
10 to 19	10,600	12,200
20 to 49	8,900	7,500
50 or more	13,600	8,000
Mobile home or trailer	-	-

Table 345.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
Year structure built		
All year-round housing units	219,300	174,100
April 1970 or later	50,000	(NA)
1965 to March 1970	37,000	38,000
1960 to 1964	35,600	34,600
1950 to 1959	44,700	45,600
1940 to 1949	24,400	24,800
1939 or earlier	27,600	27,400
Plumbing facilities		
All year-round housing units	219,300	174,100
With all plumbing facilites	215,900	168,800
Lacking some or all plumbing facilities	3,500	5,300
Complete bathrooms		
All year-round housing units	219,300	174,100
1	112,100	122,000
1 and one-half	31,800	
2 or more	70,800	46,000
Also used by another household	2,600	6,100
None	2,000	
Complete kitchen facilities		
All year-round housing units	219,300	174,100
For exclusive use of household	213,400	169,000
Also used by another household	1,100	5,100
No complete kitchen facilities	4,800	
Rooms		
All year-round housing units	219,300	174,100
1 room	10,200	9,600
2 rooms	9,400	15,500
3 rooms	30,100	22,400
4 rooms	46,900	35,400
5 rooms	56,600	44,300
6 rooms	34,900	28,100
7 rooms or more	31,300	18,800
Median	4.7	4.6

Table 345.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
Bedrooms		
All year-round housing units	219,300	174,100
None	11,400	10,600
1	35,100	26,600
2	55,400	48,300
3	88,600	69,900
4 or more	28,800	18,700
All occupied housing units	200,400	164,800
Persons		
Owner occupied	96,100	74,200
1 person	8,400	4,800
2 persons	23,300	14,300
3 persons	17,000	13,000
4 persons	20,700	15,100
5 persons	14,400	11,500
6 persons	6,400	7,300
7 persons or more	5,900	8,000
Median	3.5	3.8
Renter occupied	104,300	90,600
1 person	21,200	16,100
2 persons	28,600	22,700
3 persons	18,600	16,600
4 persons	17,700	15,000
5 persons	9,800	9,500
6 persons	4,700	5,400
7 persons or more	3,800	5,400
Median	2.6	2.9
Persons per room		
Owner occupied	96,100	74,200
0.50 or less	40,300	24,200
0.51 to 1.00	48,600	38,400
1.01 to 1.50	5,700	8,300
1.51 or more	1,500	3,200
Renter occupied	104,300	90,600
0.50 or less	35,400	22,300
0.51 to 1.00	56,400	48,400
1.01 to 1.50	8,400	11,800
1.51 or more	4,200	8,100

Table 345.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
With all plumbing facilities	197,900	159,900
Owner occupied	96,000	73,500
1.00 or less	88,800	62,100
1.01 to 1.50	5,700	8,300
1.51 or more	1,500	3,100
Renter occupied	101,900	86,400
1.00 or less	89,400	67,400
1.01 to 1.50	8,400	11,600
1.51 or more	4,100	7,500
Household composition		
Owner occupied	96,100	74,200
2-or-more-person households	87,700	69,400
Male head, wife present, no nonrelatives	75,800	60,100
Other male head	4,600	3,800
Female head	7,200	5,600
1-person households	8,400	4,800
Renter occupied	104,300	90,600
2-or-more-person households	83,100	74,500
Male head, wife present, no nonrelatives	59,900	57,100
Other male head	11,000	6,800
Female head	12,200	10,700
1-person households	21,200	16,100
Year head moved into unit		
Owner occupied	96,100	74,200
1975 or later	13,200	(NA)
Moved in within past 12 months	8,300	(NA)
April 1970 to 1974	29,200	(NA)
1965 to March 1970	18,400	30,700
1960 to 1964	12,300	16,500
1950 to 1959	15,600	18,200
1949 or earlier	7,400	8,700
Renter occupied	104,300	90,600
1975 or later	57,200	(NA)
Moved in within past 12 months	41,500	(NA)
April 1970 to 1974	30,000	(NA)
1965 to March 1970	9,900	74,700
1960 to 1964	3,600	8,900
1950 to 1959	2,300	4,700
1949 or earlier	1,300	2,300

Table 345.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
All year-round housing units	219,300	174,100
Air conditioning		
Room unit(s)	35,100	21,700
Central system	4,800	1,400
None	179,400	151,000
Elevator in structure		
4 floors or more	36,800	16,200
With elevator	31,500	13,400
Walk-up	5,300	2,900
1 to 3 floors	182,500	157,900
Basement		
With basement	17,500	21,200
No basement	201,900	143,600
Sewage disposal		
Public sewer	194,800	149,100
Septic tank or cesspool	24,500	24,000
Other	-	900
All occupied housing units	200,400	164,800
Telephone available		
Yes	189,700	152,200
No	10,700	12,600
Automobiles and trucks available		
Automobiles:		
1	91,000	78,800
2	63,700	55,100
3 or more	21,200	13,000
None	24,500	17,800
Trucks:		
1	17,200	(NA)
2 or more	1,300	(NA)
None	181,900	(NA)

Table 345.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
All occupied housing units -- Continued		
Owned second home		
Yes	4,400	6,600
No	196,000	158,200
Cooking fuel		
Utility gas	33,900	33,100
Bottled, tank, or LP gas	4,200	3,600
Electricity	160,500	125,000
Fuel oil, kerosene, etc.	300	800
Other fuel	-	-
None	1,500	2,200

Source follows next table.

Table 346.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970

Subject	1976	1970
All occupied housing units	200,400	164,800
INCOME 1/		
Owner occupied	96,100	74,200
Less than $3,000	1,400	4,000
$3,000 to $4,999	2,200	2,800
$5,000 to $6,999	3,200	3,500
$7,000 to $7,999	1,100	8,100
$8,000 to $8,999	1,200	
$9,000 to $9,999	1,400	
$10,000 to $12,499	5,300	19,200
$12,500 to $14,999	5,000	
$15,000 to $17,499	7,600	26,500
$17,500 to $19,999	8,400	
$20,000 to $24,999	15,500	
$25,000 to $29,999	13,400	10,200
$30,000 to $34,999	9,100	
$35,000 or more	21,200	
Median	23,600	14,900
Renter occupied	104,300	90,600
Less than $3,000	6,400	13,800
$3,000 to $4,999	9,100	11,000
$5,000 to $6,999	12,800	14,100
$7,000 to $7,999	6,800	19,000
$8,000 to $8,999	5,300	
$9,000 to $9,999	6,100	
$10,000 to $12,499	14,000	19,600
$12,500 to $14,999	9,800	
$15,000 to $17,499	10,700	11,100
$17,500 to $19,999	5,800	
$20,000 to $24,999	7,900	
$25,000 to $29,999	3,900	2,000
$30,000 to $34,999	2,400	
$35,000 or more	3,300	
Median	11,000	8,000
Specified owner occupied 2/	79,400	65,000
VALUE		
Less than $5,000	100	200
$5,000 to $9,999	100	500
$10,000 to $12,499	-	500
$12,500 to $14,999	-	400
$15,000 to $17,499	-	800
$17,500 to $19,999	100	1,100
$20,000 to $24,999	300	4,800
$25,000 to $29,999	500	18,800
$30,000 to $34,999	1,100	

Table 346.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

Subject	1976	1970
VALUE -- Con.		
$35,000 to $39,999	1,000	23,400
$40,000 to $49,999	2,700	
$50,000 to $59,999	7,100	14,400
$60,000 to $74,999	17,700	
$75,000 or more	48,600	
Median	75,000+	38,500
VALUE-INCOME RATIO		
Median	3.1	2.6
SELECTED MONTHLY HOUSING COSTS 3/		
Units with a mortgage	58,800	NA
Less than $100	100	NA
$100 to $119	100	NA
$120 to $149	800	NA
$150 to $174	1,400	NA
$175 to $199	2,400	NA
$200 to $224	2,700	NA
$225 to $249	3,300	NA
$250 to $274	3,400	NA
$275 to $299	3,100	NA
$300 to $349	6,100	NA
$350 to $399	5,500	NA
$400 to $499	10,400	NA
$500 or more	14,600	NA
Not reported	4,900	NA
Median	382	NA
Units owned free and clear	20,600	NA
Less than $50	2,000	NA
$50 to $69	3,900	NA
$70 to $79	2,700	NA
$80 to $89	2,400	NA
$90 to $99	2,100	NA
$100 to $119	2,200	NA
$120 to $149	1,700	NA
$150 to $199	600	NA
$200 or more	300	NA
Not reported	2,500	NA
Median	81	NA
SELECTED MONTHLY HOUSING COSTS AS PERCENTAGE OF INCOME 3/		
Units with a mortgage	58,800	NA
Median	18	NA
Units owned free and clear	20,600	NA
Median	6	NA

Table 346.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

Subject	1976	1970
GROSS RENT		
Specified renter occupied 4/	104,200	90,200
Less than $50	1,400	3,900
$50 to $59	1,100	3,000
$60 to $69	900	2,800
$70 to $79	1,500	2,600
$80 to $99	2,600	6,100
$100 to $119	2,000	11,600
$120 to $149	4,600	14,000
$150 to $174	10,200	18,600
$175 to $199	11,100	
$200 to $224	11,300	11,400
$225 to $249	8,900	
$250 to $274	8,700	
$275 to $299	8,400	
$300 to $349	11,900	5,000
$350 or more	15,300	
No cash rent	4,300	11,300
Median	234	140
Nonsubsidized renter occupied 5/	82,300	NA
Median	241	NA
GROSS RENT AS PERCENTAGE OF INCOME		
Specified renter occupied 4/	104,200	90,200
Less than 10 percent	6,400	8,500
10 to 14 percent	11,300	13,000
15 to 19 percent	16,600	13,200
20 to 24 percent	13,500	10,000
25 to 34 percent	18,900	11,700
35 percent or more	32,900	20,400
Not computed	4,600	13,500
Median	26	22
Nonsubsidized renter occupied 5/	82,300	NA
Median	27	NA
CONTRACT RENT		
Specified renter occupied 4/	104,200	90,200
Median	218	130

1/ Income of families and primary individuals in 12 months preceding date of enumeration.

2/ Limited to 1-family homes on less than 10 acres and no business on property.

3/ Sum of payments for real estate taxes, property insurance, utilities, fuel, water, garbage and trash collection, and mortgage at time of enumeration.

4/ Excludes 1-family homes on 10 acres or more.

5/ Excludes 1-family homes on 10 acres or more, mobile homes or trailers, housing units in public housing projects, and housing units with government rent subsidies; includes units where the subsidized/nonsubsidized status was not reported.

Source: U.S. Department of Commerce and U.S. Department of Housing and Urban Development, Current Housing Reports, Annual Housing Survey: 1976, Honolulu, Hawaii, Standard Metropolitan Statistical Area, H-170-76-48 (GPO, October 1978), tables A-1 and A-2.

Table 347.-- CHARACTERISTICS OF OCCUPIED HOUSING UNITS, FOR SPECIFIED ISLANDS: 1975

Characteristics	Oahu	Hawaii	Maui, Molokai, Lanai	Kauai (1974)
Number of housing units	209,676	22,112	17,732	8,550
Occupants:				
Average household size 1/	3.43	3.38	3.37	3.45
Median household income (dollars)	14,139	11,337	13,370	10,750
Median family income (dollars)	14,611	12,028	...	...
Percent of households below poverty level	10.0	19.8	...	...
Tenure and control (percent):				
Owner occupied	47.8	60.6	65.9	53.8
Condominium or cooperative	3.5	0.3	2.7	...
Other owner occupied	44.3	60.3	63.2	...
Renter occupied (incl. no cash rent)	51.7	39.4	34.1	46.1
Percent of owner occ. on leased land	31.6	6.8	6.0	14.8
Percent of renter occ. owned by govt.	21.5	6.8	3.9	...
Structural characteristics (percent):				
In one-unit structures	57.1	82.0	84.0	...
In one-story structures	57.6	80.0	83.0	...
With passenger elevator	11.0	2.4	5.2	...
With 1 to 3 rooms	18.4	11.6	13.8	...
With 0 to 2 bedrooms	42.0	32.1	34.1	...
With both hot and cold running water	99.2	96.0	98.0	...
With private flush toilet and tub or shower	98.8	96.6	98.8	...
With private sink, stove, and refrigerator	98.4	96.9	98.8	...
In "good" condition 2/	85.6	82.6	86.1	...
Median monthly costs (dollars):				
Owner occupied:				
Total, excl. maintenance and utilities	256	89	137	...
Utilities	56	45	53	...
Renter occupied, excl. no cash rent:				
Contract rent	197	135	164	(3/)
Utilities	36	30	45	...

1/ Before adjustment for apparent overstatement; see source for discussion.
2/ Units were classified as "good," "fair," or "poor;" see source for criteria.
3/ For rented plantation housing, $28; for other rented units, $125.

Source: Survey & Marketing Services, Inc., OEO 1975 Census Update Survey for Oahu (Sept. 1976), Hawaii County (Sept. 1976), and Maui County (Feb. 1976), as corrected; University of Hawaii, Center for Nonmetropolitan Planning and Development, Kauai Socioeconomic Profile (May 1975).

Table 348.— CHARACTERISTICS OF OCCUPIED HOUSING UNITS, BY DISTRICTS: 1975

District 1/	Percent 1-family detached	Percent owner occupied	Monthly cost (dollars)	
			Owned 2/	Rented 3/
Oahu, total	57.7	47.8	256	197
Niu-Hawaii Kai	83.7	81.0	399	397
Diamond Head-Aina Haina	96.6	87.0	374	367
Kaimuki-Kapahulu	73.8	55.4	129	196
Wilhelmina-Palolo	78.9	68.1	188	241
Manoa-Makiki	39.8	46.4	290	223
Moiliili-Makiki	8.9	21.4	262	198
Waikiki	6.3	24.8	258	206
Downtown-Kakaako	3.4	11.7	290	170
Nuuanu-Punchbowl	82.0	67.6	179	182
Upper Kalihi	66.7	57.2	182	179
Kalihi-Kapalama	29.3	25.0	175	120
Moanalua-Salt Lake	44.3	34.3	285	189
Aiea-Halawa	78.8	67.8	241	234
Pearl City	69.0	64.5	247	304
Pearl Harbor	36.9	15.3	199	184
Waipahu	63.9	41.8	251	252
Ewa-Makakilo	82.6	45.1	270	150
Waianae Coast	84.5	49.3	162	186
Mililani-Waipio	74.5	63.9	307	290
Wahiawa-Schofield	44.1	27.0	258	194
North Shore-Waialua	86.0	39.8	157	183
Upper Windward	87.3	57.2	347	250
Kaneohe	78.6	55.4	241	192
Kailua	91.3	71.7	319	286
Waimanalo	85.4	66.7	94	106
Hawaii County, total	82.8	60.6	89	135
Hilo-Wailea	89.8	63.7	73	83
Hilo (makai)	53.7	36.8	112	158
Hilo (mauka)	93.2	77.2	128	212
Puna-Ka'u	97.4	76.9	88	92
Kona	81.3	55.0	89	173
North Hilo-Kohala	87.1	54.9	68	77
Maui County, total	84.0	65.9	137	164
Northeast Maui	97.5	73.1	116	193
Kihei-Kula	70.7	61.2	244	266
Kahului	88.4	78.5	157	212
Wailuku-Waikapu	85.6	73.2	123	178
Lahaina	69.5	56.7	168	222
Molokai	96.5	44.3	74	59
Lanai	98.5	52.5	51	56

Continued on next page.

Table 348.-- CHARACTERISTICS OF OCCUPIED HOUSING UNITS, BY DISTRICTS: 1975 — Con.

District 1/	Percent 1-family detached	Percent owner occupied	Monthly cost (dollars)	
			Owned 2/	Rented 3/
Kauai, total (1974)	...	53.8	...	125
Hanalei	...	53.2	...	124
Wailua-Anahola	...	64.4	...	102
Kapaa	...	48.5	...	153
Puhi-Hanamaulu	...	65.8	...	68
Lihue	...	71.7	...	118
Koloa-Poipu	...	51.7	...	138
Eleele-Kalaheo	...	55.7	...	149
Kaumakani-Hanapepe	...	28.8	...	154
Kekaha-Waimea	...	42.6	...	99

1/ See maps, pp. 34 - 36 . These districts consist of groupings of census tracts, which differ in most cases from the districts described in table 4 and the urban places described in tables 5 and 6.

2/ Median monthly housing costs, excluding maintenance costs and utilities, for owner occupied housing units.

3/ Median monthly contract rent of renter occupied housing units, excluding those not paying cash rent.

Source: Survey and Marketing Services, Inc., OEO 1975 Census Update Survey for Oahu (September 1976), Hawaii County (September 1976), and Maui County (February 1976); University of Hawaii, Center for Nonmetropolitan Planning and Development, Kauai Socioeconomic Profile (May 1975).

Table 349.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1977 AND 1978

Year	Units managed by HHA 1/		Population in units 1/	Operating revenues of HHA 2/ ($1,000)		Operating revenues per unit per mo. 2/ (dollars)	Total assets 1/ ($1,000)	Average mo. rent charged 2/ (dollars)
	Total	Occupied		Gross	Net			
1977	5,555	5,524	18,214	8,696	-767	103.36	80,843	97.05
1978	5,404	5,349	16,799	7,619	387	129.06	83,098	108.42

1/ As of June 30.
2/ Year ended June 30.
Source: Hawaii Housing Authority, records.

Table 350.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1979

[Sponsored by the Federal Home Loan Bank and conducted by U.S. mail carriers.]

Date of survey and type of unit	All deliveries 1/	Vacant 1/		New units and units under construction 2/		
		Number	Percent	Total	New	Under construction
APRIL 1977						
All deliveries	213,850	3,399	1.6	4,301	2,073	2,228
Single-family residences	113,937	488	0.4	564	155	409
Apartments	99,913	2,911	2.9	3,737	1,918	1,819
Mobile homes	-	-	...	-	-	-
MARCH 1978						
All deliveries	224,237	3,312	1.5	6,686	1,866	4,820
Single-family residences	117,767	709	0.6	2,063	452	1,611
Apartments	106,467	2,603	2.4	4,623	1,414	3,209
Mobile homes	3	-	0	-	-	-
MAY 1979						
All deliveries	232,134	2,584	1.1	6,251	1,497	4,754
Single-family residences	116,300	376	0.3	1,714	330	1,384
Apartments	115,766	2,208	1.9	4,537	1,167	3,370
Live-aboard boats	66	-	0	-	-	-
Mobile homes	2	-	0	-	-	-

1/ Excludes new units, completed but as yet unoccupied.
2/ As yet unoccupied.
Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacany Survey (annual).

Table 351.-- VACANCY RATES FOR HOUSING UNITS SAMPLED FOR THE HAWAII HEALTH SURVEILLANCE PROGRAM SURVEY, BY COUNTIES: QUARTERLY, JULY 1976 TO DECEMBER 1978

Year and quarter		Percent of sampled units vacant 1/			
		Oahu	Hawaii County	Maui County	Kauai County
1976:	Third	4.7	7.4	2.9	4.4
	Fourth	5.4	8.4	2.3	6.1
1977:	First	5.3	7.9	4.5	4.9
	Second	5.9	7.7	7.1	1.7
	Third	6.5	7.9	(S)	3.0
	Fourth	6.5	4.5	1.0	2.0
1978:	First	4.3	7.0	4.3	7.7
	Second	2.8	3.4	5.2	3.6
	Third	3.6	7.4	1.6	2.0
	Fourth	4.2	4.9	2.8	2.6

S Inadequate or defective sample.

1/ Units occupied by households temporarily absent were classified as occupied. The base excludes beach homes and units occupied by transients.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program survey, records.

Table 352.-- PRICE GROUP OF NEW SALES HOUSING COMPLETED, BY TYPE OF STRUCTURE AND LAND OWNERSHIP, FOR OAHU: 1977 AND 1978

[Survey includes only subdivisions or projects with five or more completions during the year.]

Year completed, type of structure, and land ownership	All price groups	Under $50,000	$50,000 to $69,999	$70,000 to $99,999	$100,000 and over	Median price (dollars)
1977						
All units	2,915	409	1,033	1,260	213	70,369
1-family detached:						
Fee simple	669	-	36	564	69	85,878
Leasehold	291	93	10	156	32	78,173
1-family attached:						
Fee simple	69	-	-	69	-	85,000
Leasehold	-	-	-	-	-	(X)
Condo fee simple ..	133	-	73	59	1	68,750
Condo leasehold ...	216	9	119	31	57	64,595
Multi-family:						
Condo fee simple ..	342	178	164	-	-	48,833
Condo leasehold ...	1,195	129	631	381	54	67,093
1978						
All units	2,274	108	500	1,083	583	84,654
1-family detached:						
Fee simple	681	-	-	511	170	89,990
Leasehold	246	-	6	99	141	>100,000
1-family attached:						
Fee simple	247	-	6	221	20	85,950
Leasehold	12	-	9	3	-	66,667
Condo fee simple ..	177	41	87	49	-	59,500
Condo leasehold ...	66	10	56	-	-	57,667
Multi-family:						
Condo fee simple ..	-	-	-	-	-	(X)
Condo leasehold ...	845	57	336	200	252	74,425

Footnotes and source follow next table.

Table 353.-- SALES STATUS OF NEW SALES HOUSING COMPLETED, BY PRICE GROUP AND TYPE OF STRUCTURE, FOR OAHU: 1977 AND 1978

[Survey includes only subdivisions or projects with five or more completions during the year.]

Year completed and price group or type of structure	Units completed during year	Sold before const. started	Speculative units		
			Sold by Dec. 31	Unsold by Dec. 31	
				Number	Percent 1/
1977					
All units	2,915	612	1,680	623	27.1
Price group:					
Under $50,000	409	107	293	9	4.9
$50,000 to $59,999	351	23	169	159	48.5
$60,000 to $69,999	682	25	525	132	20.1
$70,000 to $99,999	1,260	318	640	302	32.1
$100,000 and over	213	139	53	21	28.4
Median (dollars)	70,369	84,245	67,200	71,142	(X)
Type of structure:					
1-family detached	960	456	443	61	12.1
1-family attached	418	102	244	72	22.8
Multi-family	1,537	54	993	490	33.0
1978					
All units	2,274	1,649	563	62	9.9
Price group:					
Under $50,000	108	92	16	-	0
$50,000 to $59,999	328	171	150	7	4.5
$60,000 to $69,999	172	93	59	20	25.3
$70,000 to $99,999	1,083	875	203	5	2.4
$100,000 and over	583	418	135	30	18.2
Median (dollars)	84,654	86,063	78,350	94,000	(X)
Type of structure:					
1-family detached	927	831	85	11	11.5
1-family attached	502	343	134	25	15.7
Multi-family	845	475	344	26	7.0

X Not applicable.

1/ Of speculative units.

Source: U.S. Department of Housing and Urban Development, Honolulu Area Office, "HUD Survey of Unsold New Houses" (unpublished tables).

Table 354.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1968 TO 1978-1979

[Data include 1-family and condominium properties for all years and cooperative, income, and vacant properties through 1977.]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/ ...	9,926	5,714	57.6	82,076

1/ Year ended February 28, 1979.

Source: Honolulu Board of Realtors, records.

Table 355.— MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1972 TO 1978-1979

Year	Number of units listed		Number of units sold		Percent of listed units sold		Average selling price (dollars)	
	Residential	Condominium	Residential	Condominium	Residential	Condominium	Residential	Condominium
1972	3,472	2,080	2,891	1,306	83.3	62.8	65,723	43,869
1973	4,148	3,185	2,699	2,379	65.1	74.7	85,914	46,811
1974	4,826	4,912	2,246	2,302	46.5	46.9	83,611	54,956
1975	4,821	5,323	2,265	1,715	47.0	32.2	83,797	55,596
1976	4,791	4,903	2,472	1,650	51.6	33.7	85,691	59,842
1977	4,452	5,422	2,985	2,285	67.0	42.1	94,028	61,484
1978-1979 1/ ...	3,522	6,404	2,139	3,575	60.7	55.8	114,264	67,783

1/ Year ended February 28, 1979.
Source: Honolulu Board of Realtors, records.

Table 356.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: MARCH 1, 1978 TO FEBRUARY 28, 1979

Type of property	Number of units listed	Units sold		Selling price of units sold	
		Number	Percent	Total ($1,000)	Per unit (dollars)
All categories	9,926	5,714	57.6	486,737	85,183
Single-family residential ..	3,522	2,139	60.7	244,413	114,265
1 and 2 bedrooms	218	131	60.1	13,996	106,839
3 bedrooms	1,893	1,262	66.7	126,501	100,238
4 or more bedrooms	1,411	746	52.9	103,916	139,297
Condominiums	6,404	3,575	55.8	242,325	67,783
1 and 2 bedrooms	4,896	2,653	54.2	176,350	66,472
3 bedrooms	1,311	796	60.7	56,815	71,375
4 or more bedrooms	197	126	64.0	9,160	72,696

Source: Honolulu Board of Realtors, records.

Table 357.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1969 TO 1979

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1969	14,683	809,639,656
1970	14,876	822,665,446
1971	16,036	969,486,762
1972	20,354	1,211,269,225
1973	21,874	1,736,756,401
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978 2/	24,902	1,306,408,450
1979	28,586	3,709,276,737

1/ Data include leases, agreement of sales assignments, subleases, etc., as well as deeds.

2/ Revised.

Source: Hawaii State Department of Land and Natural Resources, Annual Report (annual); Bureau of Conveyances, records.

Table 358.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1970 TO 1978

[In thousands of dollars. As of December 31.]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1970	1,790,220	469,483	678,688	4,760	37,587	599,702
1971	2,093,033	496,899	854,183	5,156	63,852	672,944
1972	2,424,166	570,525	1,061,068	2,199	90,733	699,641
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	4,495,971	992,773	2,229,623	1,241	292,066	980,268
1978	(NA)	1,150,080	2,762,269	1,913	330,902	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division.

Table 359.-- AVERAGE VALUES FOR EXISTING 1-FAMILY HOMES INSURED UNDER F.H.A. SECTION 203: 1972, 1977, AND 1978

Subject	1972	1977	1978
Property value (dollars)	41,611	60,975	71,449
Market price of site (dollars)	16,924	26,299	31,138
Price of site as percent of value ..	40.7	42.8	43.5
Improved living area (square feet) .	1,041	1,150	1,146
Lot size (square feet)	6,860	8,536	7,833
Sale price per square foot (dollars)	38.88	51.94	60.73

Source: U.S. Department of Housing and Urban Development, *FHA Homes*. *Data for States and Selected Areas. On Characteristics of FHA Operations under Section 203* (annual).

Table 360.-- CHANGES IN THE NUMBER OF ELEVATORS: 1975 TO 1978

Year	Added	Removed	In operation, December 31
1975	248	4	2,568
1976	202	2	2,768
1977	119	6	2,881
1978	121	7	2,995

Source follows next table.

Table 361.— ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1973 AND 1978

Facility	State totals		Geographic location: 1978						
				Hawaii Co.		Maui Co.			Kauai Co.
	1973	1978	Oahu	Hilo	Kona	Maui	Molokai	Lanai	
Total 1/	2,141	2,995	2,557	103	61	220	1	1	52
Elevators	1,796	2,545	2,158	79	58	203	-	1	46
Under 9 stories ...	996	1,403	1,067	70	58	169	-	1	38
Hydro	237	445	318	25	18	69	-	1	14
Roped	759	958	749	45	40	100	-	-	24
9 to 18 stories ...	560	747	701	9	-	29	-	-	8
19 to 28 stories ..	172	259	254	-	-	5	-	-	-
29 to 38 stories ..	65	103	103	-	-	-	-	-	-
39 stories or more	3	33	33	-	-	-	-	-	-
Escalators and moving walks	138	195	188	6	-	1	-	-	-
Inclined lifts	-	7	2	2	1	2	-	-	-
Man lifts	11	11	11	-	-	-	-	-	-
Dumbwaiters	194	235	197	16	2	13	1	-	6
Workmen's hoists 1/ .	34	12	12	-	-	-	-	-	-
Other facilities	2	2	1	-	-	1	-	-	-
Buildings with facilities 1/	(2/)	1,425	1,213	59	27	98	1	1	26

1/ Workmen's hoists not included in totals.

2/ Not available. The December 31, 1974 total was 1,118.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, records.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 618 in 1958 to 697 in 1967 and 773 in 1972. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972, and $700 million in 1976. About 72 percent of all manufacturing activity in the State was on Oahu in 1976. Food processing -- mostly sugar and pineapple -- accounted for more than half of the value added by manufacture in that year. Between 1968 and 1978, the general excise and use tax base increased 58 percent for sugar processing, 15 percent for pineapple canning, and 111 percent for all other manufacturing. There were three pineapple canneries and 13 sugar mills in Hawaii in mid-1978, in each case only half as many as ten years earlier. The production of canned pineapple fruit and juices in 1977-1978 amounted to 21 million actual cases, well below the levels of earlier years, but fresh pineapple sales rose sharply. Sugar production in 1978 amounted to 1.03 million short tons, about the same level as in other recent years. The value of production (including raw sugar and commercial molasses) was $285 million, well below the record set in 1974 but still the third best year in Island history.

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1977, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1978.

Table 362.-- MANUFACTURING: 1966 TO 1976

Year	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)
	Number	Payroll (million dollars)	Number	Man-hours (millions)	Wages (million dollars)				
1966 ..	24,800	123.8	18,700	34.3	78.2	310.8	371.5	680.9	24.1
1967 ..	25,400	139.6	19,000	35.9	86.9	326.2	399.6	723.4	26.0
1968 ..	23,200	134.0	17,400	32.2	83.3	353.9	381.9	737.1	15.6
1969 ..	23,900	145.3	17,900	33.2	90.8	351.0	408.3	758.1	19.8
1970 ..	24,800	168.7	18,100	35.3	102.8	408.6	451.1	856.9	40.5
1971 ..	24,400	176.6	17,500	34.3	105.7	435.0	465.9	899.9	28.0
1972 ..	24,800	191.1	17,700	33.1	113.7	410.0	548.3	955.6	46.7
1973 ..	24,300	195.5	17,500	31.9	117.9	496.1	592.9	1,086.4	36.6
1974 ..	22,500	210.4	15,800	28.8	116.6	913.8	952.9	1,848.2	50.2
1975 ..	23,700	236.7	16,900	30.6	133.0	685.4	1,116.2	1,800.3	51.5
1976 ..	24,200	266.4	17,100	30.8	153.9	700.3	1,156.8	1,854.8	55.6

Source: U. S. Bureau of the Census, Annual Survey of Manufactures, 1976, M76(AS)-6, p. 213.

Table 363.-- MANUFACTURING, BY GEOGRAPHIC AREA: 1972

County and urban place	Establishments		All employees (1,000)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
	Total (number)	With 20 employees or more (number)			
Hawaii, total	773	238	25.0	410.3	956.1
COUNTIES					
Hawaii	85	24	2.5	49.8	101.4
Honolulu	612	193	19.6	321.2	731.8
Kauai	28	8	.8	13.0	42.0
Maui	48	13	2.1	26.3	80.9
CITIES WITH 450 OR MORE EMPLOYEES					
Ewa Beach and Barbers Point	8	6	.5	15.9	46.4
Hilo	57	11	.9	14.1	23.0
Honolulu	534	169	17.1	261.1	542.5
Kahului	5	3	(D)	(D)	(D)
Waipahu	11	4	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

Source: U.S. Bureau of the Census, Census of Manufactures, 1972, Hawaii, MC72(3)-12.

Table 364-- MANUFACTURING, BY INDUSTRY GROUP AND INDUSTRY: 1972

Ind. code	Industry group and industry	Establishments		All employees (1,000)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
		Total	With 20 employees or more			
	All manufacturing	773	238	25.0	410.3	956.1
20	Food and kindred products	209	70	11.9	215.4	513.0
201	Meat products	18	8	0.4	5.9	30.0
202	Dairy products	11	5	(D)	(D)	(D)
203	Preserved fruits, vegetables	38	5	4.9	70.5	141.8
2033	Canned fruits, vegetables .	15	5	4.8	69.0	138.4
204	Grain mill products	8	6	0.2	5.6	26.5
205	Bakery products	18	8	0.7	11.4	19.3
206	Sugar, confectionery products	37	24	3.8	76.7	202.7
2061	Raw cane sugar	18	18	3.4	67.1	177.5
208	Beverages	21	8	(D)	(D)	(D)
209	Misc. foods, kindred products	56	6	0.7	9.4	22.7
23	Apparel, other textile products	120	55	3.3	29.6	46.4
24	Lumber and wood products	38	12	0.9	13.1	25.3
25	Furniture and fixtures	26	11	0.7	7.9	18.4
26	Paper and allied products	11	4	(D)	(D)	(D)
27	Printing and publishing	117	21	2.5	46.2	63.6
28	Chemicals and allied products .	21	5	(D)	(D)	(D)
29	Petroleum and coal products ...	5	4	(D)	(D)	(D)
30	Rubber, misc. plastics products	11	5	(D)	(D)	(D)
32	Stone, clay, glass products ...	42	13	1.1	31.8	56.5
33	Primary metal industries	3	1	(D)	(D)	(D)
34	Fabricated metal products	33	10	(D)	(D)	(D)
35	Machinery, except electrical ..	28	3	0.4	4.8	7.7
37	Transportation equipment	6	2	0.2	2.7	5.2
39	Misc. manufacturing industries	55	9	0.8	6.9	11.9
--	Administrative and auxiliary ..	22	14	0.9	-	-

(D) Withheld to avoid disclosing figures for individual companies.
Source: U.S. Bureau of the Census, *Census of Manufactures, 1972, Hawaii*, MC72(3)-12.

Table 365.-- MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1976

Island and industry group	All employees		Production workers		
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)
State total	24.2	266.4	17.1	30.8	153.9
Island:					
Oahu	17.5	195.4	12.1	20.6	107.0
Other islands	6.7	71.0	5.0	10.2	46.9
Industry group: 1/					
Food and kindred products 2/	11.4	114.5	8.4	14.9	72.6
Canned fruits, vegetables 3/	3.3	22.4	2.9	4.4	17.8
Raw cane sugar	3.5	45.3	2.6	5.6	31.9
Apparel, other textile, prods.	3.1	19.7	2.7	5.0	10.9
Lumber and wood products	0.8	6.6	0.7	1.0	5.2
Furniture and fixtures	0.7	5.6	0.4	0.7	2.5
Printing and publishing	2.8	35.5	1.4	2.5	16.8
Leather, leather products ...	0.1	0.4	0.1	0.1	0.3
Stone, clay, glass products .	1.3	19.2	0.8	1.7	11.5
Misc. manufacturing	0.6	5.2	0.4	0.7	2.4

Continued on next page.

Table 365.-- MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1976 -- Continued

Island and industry group	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
State total	700.3	1,156.8	1,854.8	55.6	193.7
Island:					
Oahu	503.2	962.7	1,465.0	29.5	162.1
Other islands	197.1	194.1	389.8	26.1	31.6
Industry group: 1/					
Food and kindred products 2/.	357.9	403.7	761.3	31.7	65.3
Canned fruits, vegetables 3/	96.3	63.9	160.2	(D)	30.1
Raw cane sugar	135.0	124.5	259.7	23.2	10.1
Apparel, other textile, products	24.5	25.7	52.2	1.1	4.4
Lumber and wood products	12.7	8.5	20.3	0.6	2.5
Furniture and fixtures	14.3	5.9	19.6	0.0	4.8
Printing and publishing	92.9	41.8	133.6	2.4	7.7
Leather, leather products ...	0.7	0.6	1.3	-	0.2
Stone, clay, glass products .	39.5	48.8	89.9	4.3	12.4
Misc. manufacturing	6.6	7.9	15.1	1.2	2.5

(D) Withheld to avoid disclosing figures for individual companies.

1/ Reported separately only for major groups, and hence detail does not add to indicated totals.

2/ The total value of shipments and cost of materials include extensive duplication arising from shipments between establishments in the same industry classification.

3/ Establishments in this category reported value of production instead of value of shipments.

Source: U.S. Bureau of the Census, Annual Survey of Manufactures, 1976, M76(AS)-6, pp. 216 and 226.

Table 366.— MANUFACTURING LABOR COSTS, CAPITAL EXPENDITURES, ASSETS, AND RENTAL PAYMENTS: 1975 AND 1976

[In millions of dollars.]

Item	1975	1976
Labor costs, total	272.1	308.0
Payroll	236.7	266.4
Social security and other required payments	16.8	20.1
Employer payments for other programs	18.5	21.5
Expenditures for new plant and equipment, total	51.5	55.6
New structures and additions to plant	12.8	15.0
New machinery and equipment	38.7	40.6
Gross book value of depreciable assets, end of year, total	673.7	709.0
Structures and building	227.4	243.6
Machinery and equipment	446.2	465.3
Rental payments, total	15.3	17.5
Structures and building	9.0	11.0
Machinery and equipment	6.3	6.5

Source: U.S. Bureau of the Census, Annual Survey of Manufactures, 1976, M76(AS)-6, p. 228.

Table 367.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1968 TO 1978

[In thousands of dollars]

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1968	533,288	184,663	114,554	234,071
1969	592,692	196,744	116,466	279,482
1970	575,222	175,337	114,634	285,251
1971	599,686	190,209	124,548	284,929
1972	638,059	205,962	124,265	307,833
1973	692,715	213,095	123,597	356,023
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/	862,412	284,000	111,942	466,470
1978 3/	917,163	291,000	131,665	494,498

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended June 30.

2/ Excludes sugar processing and pineapple canning.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 368.-- PINEAPPLE CANNERIES AND SUGAR MILLS: 1968 TO 1978

Facility	1968	1977	1978, by islands				
			State total	Hawaii	Maui	Oahu	Kauai
Pineapple canneries 1/ ..	6	3	3	-	1	2	-
Sugar companies 2/	25	15	14	4	3	2	5
Sugar mills 2/	26	16	13	5	2	2	4

1/ Variable dates, usually after the end of the canning season.

2/ As of December 31.

Source: The Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 369.-- HAWAIIAN PINEAPPLE PRODUCTION: 1967-68 TO 1977-78

[Hawaiian pack only; excludes overseas production by Hawaiian companies.]

Pack year ended May 31	Canned fruit		Canned juice		Frozen concentrate	
	1,000 actual cases	1,000 standard cases 1/	1,000 actual cases	1,000 standard cases 2/	1,000 equivalent 6/10 cases	1,000 standard cases 2/
1967-1968	17,002	11,994	10,794	8,400	643	588
1968-1969	17,728	12,116	10,930	8,600	692	633
1969-1970	16,971	11,596	11,814	9,000	731	669
1970-1971	17,718	12,028	10,590	8,100	1,016	929
1971-1972	17,961	12,537	11,004	8,400	789	722
1972-1973	15,891	11,108	9,282	7,400	633	580
1973-1974	14,042	9,550	8,470	6,600	886	810
1974-1975	11,584	8,110	5,643	4,400	438	400
1975-1976	12,142	8,200	6,173	4,800	471	520
1976-1977	12,160	8,270	7,295	5,600	346	320
1977-1978	12,482	8,490	8,403	5,750	294	270

1/ 24 #2 1/2 can, 45-lb. cases.
2/ 24 #2 1/2 can, 42 1/2-lb. cases.
Sources: The Pineapple Growers Association of Hawaii, *Pineapple Fact Book/Hawaii 1973* (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual), and records.

Table 370.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1970 TO 1978

[Includes field and cannery employment and earnings.]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1970	7,779	52,580,858	6,759
1971	7,403	51,194,731	6,915
1972	7,110	48,376,978	6,804
1973	5,759	42,613,741	7,400
1974	4,894	37,764,230	7,716
1975	4,915	42,137,633	8,573
1976	4,657	44,918,405	9,645
1977	4,924	52,413,689	10,645
1978	4,953	55,397,760	11,185

Source: Hawaii Employers Council, unpublished estimates.

Table 371.-- SUGAR PRODUCTION: 1968 TO 1978

Year	Cane land (acres)		Cane used for sugar (short tons)		Sugar produced (short tons)		Average New York raw sugar price cwt. (dollars)	Average daily earnings of workers (dollars) 1/	Molasses production (short tons)
	Total area	Harvested area	Total	Per acre	Converted to 96° raw value	Equivalent refined			
1968 ..	242,476	113,525	11,279,920	99.36	1,232,182	1,151,597	7.52	21.62	368,050
1969 ..	242,216	113,232	10,839,272	95.73	1,182,414	1,105,060	7.75	23.26	340,330
1970 ..	238,997	113,816	10,457,377	91.88	1,162,071	1,086,000	8.08	24.24	322,480
1971 ..	232,278	115,810	10,685,019	92.26	1,229,976	1,149,510	8.52	26.08	330,227
1972 ..	229,611	108,456	9,929,068	91.55	1,118,883	1,045,708	9.10	29.09	307,543
1973 ..	226,580	108,189	9,645,452	89.15	1,128,529	1,054,723	10.30	30.86	301,500
1974 ..	224,227	95,826	9,082,684	94.76	1,040,742	972,677	29.43	34.41	293,380
1975 ..	221,426	105,125	9,485,299	90.23	1,107,199	1,034,788	22.49	37.34	301,335
1976 ..	221,551	99,926	9,172,649	91.79	1,050,457	981,757	13.31	43.12	275,352
1977 ..	220,729	96,770	8,994,388	92.95	1,033,739	966,132	11.11	43.92	284,349
1978 ..	220,697	99,355	9,263,190	93.23	1,028,933	961,641	13.74	47.06	310,238

1/ Cash wage only, excluding the value of employee benefits ($21.28 per day in 1978).
Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1978, pp. 8-11, and records.

Table 372.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1968 TO 1978

Year	Pineapple ($1,000,000)		Sugar ($1,000)		
	Canned fruit and juices 1/	Fresh market sales 2/	Value of production 3/		Government payments
			Raw sugar 96°	Commercial molasses	
1968	125.0	2.5	182,455	6,621	10,861
1969	123.0	2.4	171,498	7,501	10,463
1970	135.0	3.6	180,680	7,061	10,261
1971	137.7	3.7	196,253	6,669	10,722
1972	140.5	4.9	176,550	8,052	9,667
1973	135.0	7.4	203,788	18,370	9,510
1974	118.2	8.9	659,227	17,390	8,646
1975	126.6	10.1	354,600	11,500	-
1976	130.0	14.5	245,500	11,500	-
1977	140.0	21.6	219,100	7,700	48,700
1978	128.0	29.4	269,500	15,700	8,100

1/ Value of canned fruit and juices and byproducts shipped out-of-state and sold within state, as estimated by Bank of Hawaii.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

3/ Beginning with 1972, point of delivery changed from refinery to mill.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades. Retail sales increased from $751 million in 1963 to $1.9 billion in 1972 and $3.3 billion in 1977. Wholesale sales rose from $735 million in 1963 to $1.54 billion in 1972. Hotels, amusements, and other services reported receipts of $683 million in 1972, compared with $163 million in 1963. General excise and use tax base data for more recent years indicate continued increases; between 1972 and 1978, the retailing tax base rose 116 percent, the wholesaling base by 115 percent, and the base for services by 111 percent. Major retail concentrations include Ala Moana Center, Pearlridge Center, Waikiki, and downtown Honolulu. The 19 department stores on Oahu reported sales of $373 million in 1978, double their 1970 volume. In addition to civilian retail outlets, there are 78 commissaries, exchanges, clubs, and food services maintained by the armed forces; these facilities had sales of $261 million in 1978.

Growth has been especially rapid for hotels. The number of units in the State rose from 6,800 in 1959 to 24,000 in 1969 and 51,000 in June 1979. There were 384 hotels, motels and apartment-hotels in the State on the latter date, including 228 on the Neighbor Islands. Occupancy rates averaged 82.1 percent in Waikiki and 75.5 percent on the Neighbor Islands during 1978. The average daily room rate was $38.49 in 1978. The hotel payroll in 1977 totaled $176 million, compared with $35 million ten years earlier.

Sixty feature motion pictures and television specials and series were filmed in Hawaii in 1978, accounting for local expenditures of $22 million.

The major source of these data is the United States Census of Business, most recently conducted at the end of 1977. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Harris, Kerr, Forster and Company. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1978, Section 30, presents similar data for other states and the nation as a whole.

Table 373.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1963 TO 1977

Year	Retail trade		Wholesale trade		Selected services 1/	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,891,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	(NA)	(NA)
1977	7,388	3,294,118	1,569	2,571,489	(NA)	(NA)

NA Not available.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 2, and 1977 Census of Wholesale Trade, WC77-A-12, table 2.

Table 374.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1968 TO 1978

[In thousands of dollars]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1968	1,423,835	358,852	36,203	651,512
1969	1,670,288	451,814	39,220	747,204
1970	1,895,089	504,191	43,588	854,660
1971	2,030,170	523,824	48,503	918,425
1972	2,213,704	578,260	53,108	1,002,214
1973	2,560,799	697,419	60,079	1,220,818
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 375.-- RETAIL TRADE, BY SELECTED KINDS OF BUSINESS: 1977

SIC code	Kind of business 1/	All establishments 2/ (number)	Sales 3/ ($1,000)	Payroll entire year ($1,000)	Paid employees for week including March 12 (number)
	Retail trade 4/	7,388	3,294,118	460,322	72,098
52	Building materials, hardware, garden supply and mobile home dealers	194	74,462	10,142	1,170
521, 3	Building materials and supply stores	66	56,585	7,630	800
525	Hardware stores	54	12,462	1,696	250
53	General merchandise group stores	259	631,505	74,056	11,669
531	Department stores 5/	23	375,943	50,003	7,714
533	Variety stores	55	64,459	9,095	1,843
539	Miscellaneous general merchandise stores	181	191,103	14,958	2,112
54	Food stores	876	651,259	62,489	8,423
541	Grocery stores	490	591,881	51,329	6,418
55 ex. 554	Automotive dealers	291	457,429	49,854	3,941
551	Motor vehicle dealers--new and used cars	59	368,108	37,237	2,700
552	Motor vehicle dealers--used cars only	33	16,098	1,508	140
553	Auto and home supply stores	145	52,395	8,551	849
554	Gasoline service stations	415	176,079	18,475	3,447
56	Apparel and accessory stores	733	204,037	31,158	4,957
561	Men's and boys' clothing and furnishings stores	88	28,788	4,817	698
562	Women's ready-to-wear stores	225	(D)	(D)	(D)
565	Family clothing stores	217	78,146	11,884	1,993
566	Shoe stores	70	23,871	3,529	430

Continued on next page.

Table 375.-- RETAIL TRADE, BY SELECTED KINDS OF BUSINESS: 1977 -- Con.

SIC code	Kind of business 1/	All establishments 2/ (number)	Sales 3/ ($1,000)	Payroll entire year ($1,000)	Paid employees for week including March 12 (number)
57	Furniture, home furnishings, and equipment stores	444	102,188	14,427	1,778
571	Furniture and home furnishings stores	237	51,038	8,030	891
572	Household appliance stores	74	20,142	2,397	318
573	Radio, television, and music stores	133	31,008	4,000	569
58	Eating and drinking places	1,657	484,098	134,382	27,407
5812	Eating places	1,356	433,180	118,778	23,822
5813	Drinking places (alcoholic beverages)	301	50,918	15,604	3,585
591	Drug stores and proprietary stores	115	174,155	16,649	1,859
59 ex. 591	Miscellaneous retail stores 4/	2,404	338,906	48,690	7,447
592	Liquor stores	114	28,216	2,170	387
594	Miscellaneous shopping goods stores	1,300	220,393	31,991	4,851
5941	Sporting goods stores and bicycle shops	157	29,112	3,788	538
5944	Jewelry stores	503	77,884	12,437	1,626
596	Nonstore retailers 4/	123	31,753	5,368	786
598	Fuel and ice dealers	14	730	52	10
5992	Florists	171	16,667	3,095	585

D Withheld to avoid disclosing data for individual companies.

1/ All kind-of-business classifications are not shown separately; therefore, detail does not add to total.

2/ For all establishments, including those with no payroll.

3/ Sales taxes and finance charges were included in 1972 but not in 1977. Figures include sales of establishments with no payroll.

4/ Excludes nonemployer direct sellers.

5/ Includes sales from catalog order desks.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, Geographic Area Statistics, Advance Report, RC77-A-12(A).

Table 376.-- RETAIL SALES OF COUNTIES AND URBAN PLACES: 1977

County and city	Rank	Sales ($1,000)
Retail trade	(X)	3,294,118
COUNTIES		
Honolulu	1	2,604,207
Maui 1/	2	287,574
Hawaii	3	275,938
Kauai	4	126,399
URBAN PLACES 2/		
Honolulu	1	1,905,160
Hilo	2	183,782
Kahului	3	111,635
Waipahu	4	101,706
Kailua	5	96,645
Kaneohe	6	94,527
Aiea	7	82,668
Lahaina	8	72,741
Lihue	9	63,489
Pearl City	10	50,077

X Not applicable.

1/ Includes Kalawao.

2/ As defined for statistical purposes under Act 25, SLH 1963. None of these places is a separate governmental entity.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, Geographic Area Statistics, Advance Report, RC 77-A-12(A).

Table 377.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS: 1972

[Excludes establishments without payroll]

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	State total	Oahu	State total	Oahu
All lines, total 1/	4,491	3,303	1,832,909	1,486,986
Groceries and other foods	858	562	362,374	277,935
Meals and snacks	1,278	956	210,659	176,235
Alcoholic drinks	565	420	53,361	44,770
Packaged alcoholic beverages	412	251	39,022	30,027
Cigars, cigarettes and tobacco	590	359	17,161	14,315
Drugs and other health aids	362	210	53,439	44,761
Toiletries	449	266	17,419	13,456
Men's, boys' clothing, exc. footwear	496	305	69,018	57,899
Women's, girls' clothing, exc. footwear	635	409	110,934	94,409
Footwear exc. infants and toddlers	344	205	29,787	25,774
Curtains, draperies, and dry goods	327	187	42,209	35,464
Major household appliances	179	105	31,361	22,493
Radios, TV's, musical instruments	284	167	38,088	32,462
Furniture and sleep equipment	188	133	33,160	27,471
Floor coverings	147	102	11,821	9,328
Kitchenware and home furnishings	438	288	32,763	28,460
Jewelry and optical goods	542	382	50,991	44,429
Sporting and recreational equipment	194	119	30,122	26,510
Hardware and electrical supplies	204	106	14,346	11,356
Lawn and garden supplies	269	177	19,659	16,320
Lumber and building materials	125	74	30,788	23,192
Automobiles and trucks	117	86	194,360	154,921
Auto fuels and lubricants	543	378	91,333	72,359
Auto tires, batteries, accessories	562	388	58,045	44,940
Household fuels and ice	21	11	13,278	10,056
All other merchandise	976	664	93,655	77,775
Nonmerchandise receipts	1,958	1,416	83,731	69,869
Miscellaneous merchandise	(X)	-	25	-

X Not applicable.

Source: U.S. Bureau of the Census, Census of Retail Trade: 1972, Retail Merchandise Lines, Hawaii (unpublished tabulation filed in Hawaii Department of Planning and Economic Development Library).

Table 378.-- DEPARTMENT STORES, FOR OAHU: 1977 AND 1978

[Data beginning April 1977 not comparable to earlier figures.]

Year	Number of stores, December	Annual sales ($1,000)
1977 1/	19	347,255
1978	19	373,427

1/ Data for April 1977 and succeeding months based on a new sample design, the 1972 SIC code, a revised definition of "sales" (to exclude sales taxes and finance charges, previously included), and other changes, and hence not comparable to data prior to April 1977.

Source: U.S. Bureau of the Census, Current Business Reports: Monthly Retail Trade, Sales and Accounts Receivable (1970-1977) and Monthly Department Store Sales in Selected Areas (1977 and 1978), and records.

Table 379.-- SHOPPING CENTERS: 1976 AND 1977

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1976	2,132	1,467	665	8,424	6,711	1,713
1977	2,238	1,573	665	8,805	7,092	1,713

Source: Bank of Hawaii, Hawaii 78 (August 1978), p. 30.

Table 380.-- CHARACTERISTICS OF SELECTED SHOPPING CENTERS: 1978

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu: 1/						
Ala Moana Center	Honolulu	1958	50	1,400	7,800	155
Kahala Mall	Honolulu	1954	22	370	1,500	56
Pearl City S. C.	Pearl City	1965	15	249	900	36
Pearlridge Center	Aiea	1972	59	1,200	4,950	140
Waikiki Shopping Plaza	Honolulu	1977	1.1	300	300	50
Hawaii: 2/						
Hilo Mall S. C.	Hilo	1970	14	220	950	33
Maui: 2/						
Kaahumanu Center	Kahului	1973	25	254	1,409	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	25	172	1,250	39
Kauai: 2/						
Lihue S. C.	Lihue	1966	9	142	551	24

1/ Includes centers with more than 200,000 square feet of building area.
2/ Includes centers with more than 100,000 square feet of building area.
Source: Chamber of Commerce of Hawaii, Shopping Centers in Hawaii (July 1978).

Table 381.-- MAJOR RETAIL CENTERS ON OAHU: 1972

Center 1/	Number of retail stores	Retail sales ($1,000)	Payroll, entire year ($1,000)	Paid employees, March 12
Oahu, total	4,235	1,489,602	221,329	48,605
Honolulu, total	3,215	1,144,892	177,097	38,482
Honolulu central business district	353	65,471	12,254	2,771
Ala Moana Center	224	218,844	39,137	7,738
Waikiki	597	169,084	26,804	6,420
Kahala Mall	60	41,625	5,284	1,374
Dillingham Blvd.	14	20,094	2,530	678
Kailua Shopping Center	105	44,641	6,120	1,427
Waipahu and Westgate Shopping Centers	42	33,768	4,125	1,040
Pearlridge Shopping Center	32	18,606	2,880	476

1/ For boundaries, see source.

Source: U.S. Bureau of the Census, Census of Retail Trade, 1972, RC72-C-12 (1974).

Table 382.-- RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1977 AND 1978

Type of facility	Establishments 1977	Establishments 1978	Annual sales ($1,000) 1977	Annual sales ($1,000) 1978
Total	79	78	230,601	261,462
Commissaries	8	6	66,550	77,034
Exchanges	21	20	133,878	149,493
Clubs	35	36	23,347	22,930
Food service 1/	15	16	6,827	12,006

1/ Data for 1977 exclude the Hale Koa Hotel food and beverage department ($4,419,000 in 1978 sales).

Source: Hawaii State Department of Planning and Economic Development, Retail Sales by the Armed Forces, 1978 (Statistical Report 130, March 23, 1979), table 2.

Table 383.-- WHOLESALE TRADE, BY SELECTED KINDS OF BUSINESS: 1977

[Including merchant wholesalers, manufacturers' sales branches and offices, and agents, brokers, and commission merchants.]

SIC code	Kind of business	Establishments (no.)	Sales 1/ ($1,000)	Payroll entire year ($1,000)	Paid employees for week including March 12 (number)	Inventories end of year ($1,000)
	Wholesale trade 2/	1,569	2,571,489	177,556	14,695	260,871
501	Motor vehicles and automotive parts and supplies	93	121,496	11,757	1,053	25,962
502	Furniture and home furnishings	53	45,388	4,129	350	8,076
503	Lumber and other construction materials	80	122,909	13,569	995	23,718
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies .	42	40,235	3,346	256	4,659
505	Metals and minerals, except petroleum .	16	22,006	1,937	149	3,888
506	Electrical goods	100	182,752	15,322	1,127	27,483
507	Hardware, and plumbing and heating equipment and supplies	72	59,444	6,133	514	8,417
508	Machinery, equipment, and supplies	237	230,427	35,080	2,598	35,832
511	Paper and paper products	61	67,270	6,663	508	7,807
512	Drugs, drug proprietaries, and druggists' sundries	42	47,513	4,178	373	5,477
513	Apparel, piece goods, and notions	71	58,661	4,628	450	8,419
514	Groceries and related products	310	696,494	36,304	3,451	43,609
515	Farm-product raw materials	6	2,603	137	17	40
516	Chemicals and allied products	25	31,354	3,067	207	3,297
517	Petroleum and petroleum products	43	506,337	4,923	229	12,862
518	Beer, wines, and distilled alcoholic beverages	31	130,745	6,629	447	13,296

1/ Sales taxes and finance charges were excluded in 1977 but included in earlier census.

2/ Including categories not shown separately (SIC 509 and 519); therefore, detail will not add to total.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, Geographic Area Statistics, Advance Report, WC77-A-12(A).

Table 384.-- WHOLESALE TRADE OF COUNTIES AND URBAN PLACES: 1977

[Including merchant wholesalers, manufacturers' sales branches and offices, and agents, brokers, and commission merchants.]

County and urban place	Establishments (number)	Sales 1/ ($1,000)	Payroll entire year ($1,000)	Paid employees for week including March 12 (number)
Wholesale trade ..	1,569	2,571,489	177,556	14,695
COUNTIES				
Honolulu	1,277	2,166,760	152,752	12,474
Hawaii	148	185,159	13,070	1,207
Maui and Kalawao	95	160,722	8,082	645
Kauai	49	58,848	3,652	369
URBAN PLACES 2/				
Honolulu	1,141	1,990,955	141,588	11,578
Hilo	114	159,370	11,551	1,040
Kahului	49	134,283	5,720	423
Waipahu	23	51,206	2,819	215
Lihue	29	31,989	2,189	193
Pearl City	10	23,970	1,350	108
Kailua	21	22,173	543	48
Wailuku	29	20,358	2,035	189
Kaneohe	20	10,039	810	79

1/ Sales taxes and finance charges were excluded in 1977 but included in earlier censuses.

2/ As defined for statistical purposes under Act 25, SLH 1963. None of these places is a separate governmental entity.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, Geographic Area Statistics, Advance Report, WC77-A-12(A).

Table 385.-- SELECTED SERVICES, BY KIND OF BUSINESS: 1972

Geographic area and kind of business	Number	Receipts ($1,000)
Selected services, total	6,348	683,201
Hotels, motels, camps	224	241,832
Hotels	187	230,972
Motels	33	10,634
Camps and trailer parks	4	226
Personal services	1,675	53,390
Laundry, cleaning	227	21,950
Beauty and barber shops	897	18,572
Funeral service, crematories	24	3,764
Other personal services	527	9,104
Business services	1,763	120,075
Advertising	101	24,170
Services to dwellings, bldgs.	305	18,741
Other business services	1,357	77,164
Automotive repair, services	633	77,671
Automotive repair shops	461	31,526
Automotive rental, parking, wash	172	46,145
Miscellaneous repair services	439	20,244
Amusement, recreation services	849	71,556
Motion picture theaters	66	12,152
Other amusement, recreation	783	59,404
Dental laboratories	33	2,309
Legal services	333	35,149
Architect., engineer., land-survey	399	60,955

Source: U.S. Bureau of the Census, *Census of Selected Service Industries: 1972*, *Area Series*, Hawaii, SC72-A-12, table 1.

Table 386.-- SELECTED SERVICES, BY GEOGRAPHIC AREA: 1972

Geographic area and kind of business	Number	Receipts ($1,000)
Selected services, total	6,348	683,201
City and County of Honolulu .	5,023	543,334
City of Honolulu	3,975	485,768
Rest of Oahu	1,048	57,566
Hawaii County	651	63,812
Kauai County	252	25,855
Maui County	422	50,200
Lanai	6	97
Maui	378	49,214
Molokai	34	808
Island not reported	4	81

Source: U.S. Bureau of the Census, Census of Selected Service Industries: 1972, Area Series, Hawaii, SC72-A-12, table 5, and special tabulation of data by island for Maui County.

Table 387.-- HOTEL UNITS, OCCUPANCY RATES, EMPLOYMENT, AND PAYROLL: 1968 TO 1978

Year	Number of hotel units 1/			Percent occupied 2/		Hotel employment 3/	Payroll 4/ ($1,000)
	State total	Oahu	Neighbor islands	Waikiki 5/	Neighbor islands		
1968	21,243	15,138	6,105	89.2	75.2	10,783	46,730
1969	25,822	18,209	7,613	81.3	69.3	12,546	58,212
1970	30,323	21,217	9,106	74.1	64.8	13,613	66,924
1971	35,349	24,612	10,737	58.9	63.5	15,550	78,222
1972	35,653	24,441	11,212	70.0	66.4	17,619	93,915
1973	37,319	24,969	12,350	81.5	70.2	18,857	107,525
1974	39,558	25,352	14,206	82.0	69.4	19,139	115,599
1975	40,691	25,699	14,992	78.3	68.3	19,885	128,659
1976	44,093	27,099	16,994	82.6	68.4	21,130	155,123
1977	46,048	28,083	17,965	81.2	71.7	22,313	175,602
1978	48,790	29,294	19,496	82.1	75.5	(NA)	(NA)

NA Not available.

1/ November, 1968; October, 1969 and later years.

2/ Annual averages.

3/ Annual averages, for workers covered by the Hawaii Employment Security Law.

4/ Wage and salary payments to workers covered by the Hawaii Employment Security Law.

5/ Data for 1976 and later years omit several major hotels.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (periodic), Annual Research Report (annual), and records; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 388.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS: 1970 AND 1979

Geographic area	February 1970		June 1979		
	Visitor plants 1/	Units	Visitor plants 1/	Units	
				Total	Condo 2/
State total	275	26,923	384	51,185	9,459
Oahu	152	18,449	156	31,411	2,949
Waikiki 3/	124	16,590	123	27,657	...
Hotels	55	13,825	62	23,547	...
Apartment-hotels ...	63	2,488	58	3,940	...
Other 4/	6	277	3	170	...
Other Honolulu	9	1,105	10	2,410	...
Rest of Oahu	19	754	23	1,344	...
Other islands	123	8,474	228	19,774	6,510
Hawaii	41	3,166	61	6,056	698
Kauai	31	2,565	46	4,064	1,170
Maui	48	2,643	115	9,123	4,363
Molokai	2	89	5	520	279
Lanai	1	11	1	11	-

1/ Hotels, apartment-hotels, motels, cottages, etc.

2/ Condominium units in rental pools for transient use. Included in total units.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

4/ Motels, cottages, etc.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory for February 1970 and June 1979.

Table 389.-- HOTEL UNITS, 1978 AND 1979, AND OCCUPANCY RATES, 1977 AND 1978, BY GEOGRAPHIC AREA

Geographic area	Number of units			Percent occupied 1/	
	Feb. 1978 (existing)	February 1979			
		Existing	Planned 2/	1977	1978
State total	47,070	49,832	14,893	(NA)	(NA)
Oahu	28,546	30,065	3,491	(NA)	(NA)
Waikiki and Kahala 3/	24,934	26,346	3,491	81.2	82.1
Ala Moana	1,649	1,589	-	(NA)	(NA)
Central Honolulu	129	130	-		
Airport	691	691	-		
Leeward Oahu	532	665	(NA)		
Windward Oahu	611	644	(NA)		
Hawaii	6,002	6,093	5,804	61.0	65.0
Hilo and Honokaa	1,957	1,954	-	53.0	55.4
Volcano	38	38	-	76.2	76.7
Ka'u	56	56	-		
North and South Kohala	408	408	3,198		
North and South Kona	3,543	3,637	2,606	63.8	68.2
Maui	8,202	8,941	2,968	76.9	80.4
Wailuku and Kahului	427	445	-	80.1	85.6
Lahaina to Napili	4,897	5,309	1,831	81.6	82.7
Kihei and Maalaea	2,767	3,084	1,137	63.2	73.6
Kula, Makawao, and Paia	19	14	-		
Hana	92	89	-		
Kauai	3,786	4,202	2,630	80.6	83.3
Kapaa and Wailua	1,749	2,073	1,340	84.2	85.1
Lihue	749	742	158		
Poipu and Kukuiula	769	768	679	83.0	86.3
Kalaheo	20	20	-	62.3	60.1
Kokee	12	11	-		
Hanalei	487	588	453		
Molokai	523	520	-	(NA)	(NA)
Lanai	11	11	-	(NA)	(NA)

NA Not available.

1/ Annual averages.

2/ Under construction or announced for future construction. Includes 3,497 to be completed in 1979, 1,995 in 1980, 1,507 in 1981, and 7,894 indefinite. Excludes condominium units.

3/ Occupancy data limited to Waikiki and Diamond Head.

Source: Hawaii Visitors Bureau, Annual Research Report and records.

Table 390.-- HOTEL OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREA: ANNUAL AVERAGES, 1977 AND 1978

Geographic area	Percentage of occupancy		Average daily room rate (dollars)		Average daily guest rate (dollars)	
	1977	1978	1977	1978	1977	1978
State	76.70	80.60	34.28	38.49	17.42	19.41
Oahu	80.20	82.07	31.87	35.95	16.42	18.23
Waikiki:						
On beach	83.21	86.35	39.53	47.34	20.47	24.38
Off beach:						
With restaurant	80.07	80.04	25.68	28.63	13.15	14.18
Without restaurant ..	78.79	78.07	23.71	25.67	11.83	13.48
Other Oahu	74.66	83.08	35.55	39.82	18.97	21.06
Hawaii	58.08	65.40	33.08	36.46	16.62	18.41
Hilo	49.20	54.39	28.84	29.93	14.79	15.67
Kona	63.35	70.59	35.03	38.83	17.43	19.33
Maui	84.03	85.09	42.59	47.49	21.22	23.62
West end	90.66	90.09	44.19	48.80	21.44	23.17
Other Maui	70.04	74.61	38.21	42.54	20.55	24.19
Kauai	84.70	87.00	38.45	42.20	18.91	20.60
East end	83.60	85.96	38.60	41.64	19.12	20.60
South end	94.56	94.89	37.24	45.13	17.38	20.47

Source: Harris, Kerr, Forster & Company, Statistics and Trend of Hotel Business in Hawaii (monthly).

Table 391.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1978

Subject	1976	1977	1978
Number of features filmed	31	63	60
Feature films for theater viewing	3	4	3
Feature films for television viewing	1	5	5
Television specials and series 1/	27	54	50
Gross budgets (millions of dollars) 2/	26	39	45
Feature films and television specials and series	20	30	36
Television commercials and related advertising	6	9	9
Expenditures in Hawaii for feature films and television specials and series (millions of dollars)	11	16	22
Tax revenues generated (millions of dollars)	1.01	1.51	2.04
Employment:			
Total	918	1,265	1,610
Direct	622	856	1,091

1/ Each program in a series counted separately.
2/ Includes post-production costs out of the State.
Source: Hawaii State Department of Planning and Economic Development, Hawaii Film Office, unpublished estimates.

Table 392.-- NUMBER AND GROSS SALES OF LIQUOR LICENSEES, FOR OAHU: 1977 AND 1978

Class of licensee	Licenses in effect, June 30		Gross sales of licensees, year ended June 30 ($1,000)	
	1977	1978	1977	1978
All categories ..	1,037	1,144	255,471	280,065
Cabarets	33	35	13,322	12,666
Clubs 1/	13	14	1,723	1,921
Dispensers 2/	560	623	95,317	106,081
Retailers 3/	391	427	57,610	63,551
Wholesalers	22	23	80,986	89,315
Manufacturers	5	5	6,021	5,773
Tour or cruise vessel	13	14	492	678
Vessel	-	3	-	80

1/ Private.

2/ Bars, restaurants, etc.

3/ Package goods stores, including supermarkets, drug stores, etc.

Source: City and County of Honolulu, Department of Finance, Liquor Commission.

Table 393.-- LIQUOR AND TOBACCO TAX BASES: 1977 AND 1978

[Wholesale value, in thousands of dollars. Excludes sales on military bases.]

Year 1/	Liquor tax base	Tobacco tax base
1977	86,229	26,077
1978	93,560	28,082

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release).

Table 394.-- PER CAPITA CONSUMPTION OF ALCOHOLIC BEVERAGES: 1966 TO 1977

[In gallons. Based on estimated resident population.]

Year	Distilled spirits	Beer	Wine
1966	1.59	13.1	0.654
1967	1.77	14.2	0.696
1968	1.83	15.2	0.767
1969	(NA)	14.5	0.839
1970	1.80	17.7	1.120
1971	1.52	17.8	1.669
1972	1.83	17.4	1.343
1973	2.17	17.3	1.632
1974	2.30	22.3	1.712
1975	2.28	25.2	1.831
1976	2.28	25.2	2.042
1977	2.34	27.4	2.121

Source: Estimated by the Distilled Spirits Council of the United States, Inc., and based in part on data from the U.S. Brewers Association and the Wine Institute.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $139 million in 1968 to $1.1 billion in 1978. Exports to foreign countries amounted to only $49 million in 1968, but by 1978 exceeded $137 million. (These figures, it should be noted, refer to merchandise imports for consumption and exports of domestic merchandise through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $689 million in 1966 to $1.8 billion in 1976, the most recent year available. Merchandise exported to the Mainland rose from $311 million in 1966 to $817 million in 1974, then slipped back to $415 million in 1976.

Among the foreign nations, Hawaii's leading trading partners in 1977 were Indonesia for imports and Australia for exports. Imports from Indonesia amounted to $257 million, or 26 percent of the total, while exports to Australia reached $23 million, or 24 percent of all foreign exports. The Indonesian imports consisted mostly of crude oil.

The Honolulu Foreign Trade Zone received merchandise valued at $14.6 million in fiscal 1978. Merchandise forwarded was valued at $14.5 million.

Foreign-owned U.S. firms in Hawaii operated 138 establishments in 1976, and employed 7,729 persons with an annual payroll of $71 million. Out of 39,782 hotel rooms in the State as of July 1978, 8,381 (or 21.1 percent) were foreign owned.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade), the Bank of Hawaii (for interstate trade and balance of payments), Foreign Trade Zone No. 9, the Hawaii International Services Agency, and recent studies of Foreign Direct Investment in the United States and Selected Characteristics of Foreign-Owned U.S. Firms issued by the U.S. Department of Commerce. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1978. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 395.-- INTERSTATE TRADE: 1967 TO 1977

[In millions of dollars]

Year	Imports	Exports
1967	822.4	325.3
1968	886.7	329.1
1969	1,029.1	321.7
1970	1,194.1	339.8
1971	1,201.4	365.7
1972	1,220.0	350.2
1973	1,563.5	381.8
1974	1,866.2	817.0
1975	1,773.9	522.4
1976	1,756.3	415.2
1977	1,982.7	471.0

Source: Bank of Hawaii, Hawaii 79 (August 1979), p. 45. Compiled from reports of major shippers and carriers, for commodities moving between Hawaii and the Mainland.

Table 396.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1968 TO 1978

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland.]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1968 ...	142.5	138.7	49.0
1969 ...	171.0	167.3	46.4
1970 ...	174.7	167.4	51.2
1971 ...	223.6	215.5	46.3
1972 ...	244.3	227.5	60.4
1973 ...	340.1	304.9	72.8
1974 ...	645.3	605.5	115.2
1975 ...	784.4	757.6	95.7
1976 ...	915.1	876.5	66.2
1977 ...	1,038.2	988.1	98.3
1978 ...	1,184.5	1,126.4	137.8

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT 990 (through 1973) and Highlights of U.S. Export and Import Trade, FT 990 (1974 and later), cumulative totals in December issues.

Table 397.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1978

[See headnote to preceding table]

Category and method of transportation	Value (million dollars)	Shipping weight (million pounds)
General imports, all methods	1,184.5	(NA)
Vessel	738.7	10,038.8
Air	406.0	16.9
Imports for consumption, all methods 1/	1,126.4	(NA)
Exports, all methods	137.8	(NA)
Vessel	50.0	520.6
Air	53.9	13.5

NA Not available.

1/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1978, tables E-4 and I-14.

Table 398.-- IMPORTS AND EXPORTS, BY GEOGRAPHIC AREA, FOR THE HONOLULU CUSTOMS DISTRICT: 1977

[In dollars. Includes all trade through the Honolulu Customs District, and thus may include imports intended for consumption on the Mainland or exports originated on the Mainland.]

Geographic area	Imports for consumption	Exports of domestic merchandise
All areas	993,159,085	96,779,887
Regions:		
North America	46,897,287	5,949,033
South America	3,520,639	40,627
Europe	32,832,781	8,691,377
Africa	22,546,471	71,217
Asia	856,636,862	43,784,376
Australia and Oceania	30,725,045	38,243,257
Nations: 1/		
Australia	9,961,384	23,415,909
Brunei	91,078,758	662
Canada	13,845,391	2,940,632
China, Republic of	68,529,642	680,510
Costa Rica	-	3,000,000
French Pacific Islands	156,333	3,415,364
Hong Kong	20,388,858	2,214,970
Indonesia	256,569,163	438,339
Japan	140,335,234	13,145,195
Malaysia	40,134,837	37,316
Netherlands	1,161,386	7,070,580
Nigeria	22,360,924	69,072
Oman	40,892,799	-
Philippines	9,497,451	10,822,013
Saudi Arabia	31,422,722	355,869
Singapore	129,741,092	1,883,739
Trust Territory of the Pacific Is...	501,480	8,498,867
United Arab Emirates	6,936,354	11,332,211

1/ Shown separately for the ten leading import sources (over $20,000,000) and ten leading export destinations (over $2,000,000).

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade 1977 (International Business Series No. 5, June 1978).

Table 399.-- MANUFACTURED EXPORTS, 1960 TO 1976, AND AGRICULTURAL EXPORTS, 1968 TO 1977

Subject	Amount
MANUFACTURED EXPORTS	
Export value (million dollars):	
1960	17
1972	26
1976	51
Export value as percent of total manufacturing production, 1976	2.7
Employment related to exports, 1976:	
Estimated number	500
Percent of total employment	2.0
AGRICULTURAL EXPORTS	
Export values (million dollars; fiscal years):	
1968	16
1972	17
1977	59
Export value as percent of farm sales, fiscal 1977	18.0

Source: U.S. Department of Commerce, Industry and Trade Administration, Hawaii Exports (1978), pp. 4, 5, 10, and 11.

Table 400.-- FOREIGN TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1978

Fiscal years 1/	Foreign Trade Zone No. 9 2/						Subzone No. 9A 3/				
	Firms using zone	User employment at zone	Value of mdse. ($1,000)		Revenues (dollars)	Expenditures (dollars)	User 4/ employment at subzone	Merchandise, in/out		Exports	
			In/out	Exports				1,000 short tons	Value ($1,000)	1,000 short tons	Value ($1,000)
1968 ...	82	42	6,279	498	88,060	122,718	...	...	...	...	...
1969 ...	94	56	10,079	1,187	120,990	122,628	...	...	...	...	...
1970 ...	124	65	11,682	1,850	160,438	156,424	...	...	...	...	...
1971 ...	138	57	17,363	3,147	206,159	193,450	...	...	...	...	...
1972 ...	132	58	20,648	2,895	296,605	236,683	45	453.0	9,300	41.1	1,106
1973 ...	140	83	23,377	2,775	323,866	316,724	73	3,250.0	76,760	1,178.1	33,614
1974 ...	139	113	25,394	6,140	410,939	380,835	95	3,046.8	156,454	564.0	52,436
1975 ...	148	131	29,798	6,317	536,475	488,838	(NA)	3,794.6	340,996	707.1	72,003
1976 ...	179	139	24,396	4,576	575,007	523,331	159	5,755.7	534,023	815.2	80,719
1977 ...	205	145	25,702	3,956	797,793	704,043	156	6,349.6	608,815	893.2	83,134
1978 ...	191	193	29,095	4,395	923,625	676,665	139	6,837.5	705,711	1,178.5	117,247

NA Not available.

1/ Ended June 30, 1968 to 1976, and September 30, 1977 and 1978.

2/ Began operation June 15, 1966.

3/ Began operation April 7, 1972.

4/ Full-time users only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, records.

Table 401.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1975 AND 1976

Kind of establishment and year	Firms	Establishments	Employment 1/	Payroll ($1,000)	
				First quarter	Annual
All foreign-owned firms:					
1975 2/	39	123	7,111	14,497	57,340
1976	42	138	7,729	17,809	70,894
Manufacturing:					
1975	...	8	560	...	8,062
1976	...	7	578	...	8,746
Nonmanufacturing:					
1975	...	115	6,551	...	49,278
1976	...	131	7,151	...	62,148

1/ For week containing March 12.

2/ Based on preliminary 1975 data for all multiestablishment firms with 50 or more employees in Hawaii, these foreign-owned firms accounted for 3.2 percent of the establishments, 5.6 percent of the employment, and 4.5 percent of the annual payroll.

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1975-1976, Series FOF, No. 1 (November 1978), tables 6, 7, and 9.

Table 402.-- FOREIGN DIRECT INVESTMENT IN HAWAII: 1974

Subject	All Hawaii affiliates of foreign parents	Hawaii affiliates of Japanese parents	Hawaii affiliates of other foreign parents
Land controlled, Dec. 31 (1,000 acres) ..	110	(D)	(D)
Owned	51	6	45
Leased from others	60	(D)	(D)
Property, plant, and equipment owned ($ million)	716	483	233
Agricultural and timber land	11	(D)	(D)
Other natural resources	-	-	-
Transient lodging, residential, and recreational	423	354	69
Industrial	44	(D)	(D)
Other commercial and business	147	66	81
Other	90	57	33
Employees	13,095	(NA)	(NA)
Wages and salaries ($ million)	91	(NA)	(NA)

D Data suppressed to avoid disclosure of information for individual firms.

NA Not available.

Source: U.S. Department of Commerce, Foreign Direct Investment in the United States, Vol. 2, Report of the Secretary of Commerce: Benchmark Survey, 1974 (April 1976), pp. 124, 129, 150, and 155.

Table 403.-- HOTEL ROOMS, BY LOCATION OF OWNERS AND SIZE OF HOTEL: JULY 1978

Location of hotel owners 1/	All hotel rooms	Rooms in hotels with -- 1 to 99 rooms	Rooms in hotels with -- 100 or more rooms
All owners	39,782	3,177	36,605
Hawaii	21,895	2,175	19,720
Mainland U.S.	9,506	432	9,074
Japan	6,778	155	6,623
Canada	476	158	318
Hong Kong	430	60	370
Korea	300	-	300
Taiwan	200	-	200
Unknown	197	197	-

1/ For corporations or huis, refers to location of headquarters.

Source: First Hawaiian Bank, Research Division, "Hotel Ownership in Hawaii," Economic Indicators, September 1978, and records.

Table 404.— CUMULATIVE FOREIGN INVESTMENT IN HAWAII, BY COUNTRY OF ORIGIN AND COUNTY AND TYPE OF INVESTMENT: 1959 TO 1979

[In thousands of dollars]

Subject	Amount
All foreign investments	774,100
Country of origin:	
Australia	48,850
Canada	178,950
Hong Kong	72,100
Japan	414,900
Korea, South	9,500
Other countries	49,800
County of investment:	
Honolulu	612,600
Hawaii	103,400
Kauai	-
Maui	58,100
Type of investment:	
Retail stores	29,400
Hotels 1/	281,700
Golf courses	17,300
Restaurants	8,150
Insurance portfolios	42,300
Real estate	300,400
Agriculture	54,200
Other types	40,650

1/ At the time of the survey, Hawaii had 23 foreign-owned hotels, with a total of 9,726 units. Japanese owners accounted for 16 hotels and 7,802 units; Canadians, for 3 hotels with 613 units; and all other countries, for 4 hotels and 1,311 units.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency (HISA), data supplied September 6, 1979.

Table 405.-- BALANCE OF PAYMENTS: 1975 TO 1977

[In millions of dollars. Excludes capital movements.]

Category	1975	1976	1977
EARNINGS BY HAWAII FROM OVERSEAS			
Total earnings	4,351	4,632	5,381
Commodity exports	616	481	569
Federal expenditures	1,979	2,186	2,381
Services performed	1,543	1,711	2,141
Return on overseas investments	213	254	290
EXPENDITURES BY HAWAII TO OVERSEAS			
Total expenditures	4,864	4,961	5,635
Commodity imports	2,558	2,671	3,025
Payments to Federal government	1,215	1,118	1,301
Services performed	779	827	929
Return on investments in Hawaii	312	345	380

Source: Bank of Hawaii, Hawaii 79, Annual Economic Review (August 1979), p. 45. Based on data from a variety of private and governmental sources, including published reports, interviews, answers to letters, and related procedures. Excluded are capital movement items such as the flow of investment funds, deposits of financial institutions, loans and repayment of loans, securities, and currency.

BIBLIOGRAPHY

This volume is the thirteenth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was Statistical Abstract of Hawaii, 1962, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled The State of Hawaii Data Book were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the Data Book, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki (1970), Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii (1971), and Inventory of Hawaii Planning Information (1973). The first two are reports of statistical symposia. The third is a 164-page reference work prepared for the Hawaii Urban Planning Information Center, containing detailed geographic and subject-matter indexes and source listings. These reports are now out of print, but copies can be consulted in most Hawaii libraries.

Although most of the series in the Data Book are shown only for recent years, earlier figures in many cases can be found in Historical Statistics of Hawaii, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University Press and various book stores for $25.

Privately published works of general statistical reference include Hawaii Facts and Figures and All About Business in Hawaii. Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) more than forty years ago. The most recent edition appeared early in 1979, with statistics through 1978; copies are available from the Chamber for $2.00. All About Business in Hawaii, 1979 Edition, is the seventh in an annual series published by Crossroads Press. The current edition costs $2.50.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are Hawaii '78, published by the Bank of Hawaii in August 1978, and Hawaii in 1978, issued by the First Hawaiian Bank as a supplement to its monthly Economic Indicators for April 1979.

The County of Hawaii, Department of Research and Development, has published its own Data Book 1978, presenting 232 pages of statistics for the Big Island.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the Statistical Abstract of the United States and its companion volume, the County and City Data Book. The Abstract is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 99th, dated 1978; copies are available for $10.50 (cloth) or $6.75 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The County and City Data Book, most recently issued for 1977, is sold by the same agency for $19.50. Both volumes are on the shelves of most libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1978

Edition	Number of pages	Number of tables	Price (dollars)		Printing cost (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/ ..	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/ ..	227	210	4.00	5.00	6,245.00	3,000
1973	290	261	4.00	5.00	6,309.00	1,500
1974	306	291	4.00	5.00	9,330.00	2,000
1975	302	308	4.00	5.00	10,222.95	2,000
1976	312	334	4.00	5.00	9,901.13	2,000
1977	339	372	4.00	5.00	11,990.00	2,000
1978	379	422	4.00	5.00	8,900.00	2,000

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

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